

# Week 7: Computer-Controlled Machining

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- [prep meeting](#)
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- [local class](#)
- [Recitation Meeting Chat - 03/10/25](#)
- [Chat global class](#)
- [Post Prozessor](#)

# regional meeting

Jakob



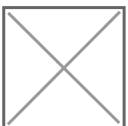
Mkhitar



Zhirayr Ghukasyan



Derenik Danielyan



# Dylan Heneck



Aalto FabLab KiCad tutorial

# Sam Hos



# Irja Linnerud



# Forrest O.



# prep meeting

14:31:35 Von andri-fab lab reykjavik an Alle: thanks

14:32:48 Von Krisjanis Rijnieks an Alle: 1GB>

14:36:41 Von henk an Alle: It can be set in http, server and location context —

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14:47:46 Von Fab Lab Akureyri an Alle: PXL\_20250305\_134622270.jpg Ricardo Marques, saheen palayi:♥ Þórarinn Bjartur Breiðfjörð Gunnarsson, Marius Araújo, andri-fab lab reykjavik, Amany Ayman, Svavar Konradsson Fab Lab Isafjordur:☐

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# homework

great tool for filesizes ncd <https://en.wikipedia.org/wiki/Ncdu>

stay below 1GB for the whole FabAcademy

<https://gitlab.fabcloud.org/academany/fabacademy/2025/class/-/issues/9>

<https://www.timeanddate.com/>

Use the "F" shortcut in Kicad!

## Yryszhan Sansyzbay

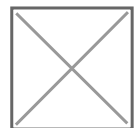
## Ashish Joy



[for.edu.sg/bart](https://for.edu.sg/bart)



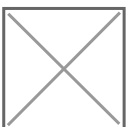
**Final Project:** [NFC Record Player](#)



Symphoni is an elegant productivity assistant designed to blend function and form.

opencv aruco marker

## Dorji Gyeltshen



Nice KiCAD tutorial!

**Final Project** Soap dispenser Time of flight with the RP2040.

<https://fabacademy.org/2020/labs/leon/students/adrian-torres/fabxiao.html#flight2>

Dopple Radar: <https://fabacademy.org/2020/labs/leon/students/adrian-torres/fabxiao.html#radar>

# Ana Camila Luna Lopez

Adafruit APDS9960 Proximity, Light, RGB, and Gesture Sensor - STEMMA QT / Qwiic

Camila look at [contemporary craft book](2012

<https://fabacademy.org/archives/2012/students/lubsen.astrid/Finalproject.html>) by astrid done in

fabacademy



Have a look at this Fabricademy project too.

<https://nbss.edu/full-time-programs/bookbinding/>

# Kezang Choden

**Final Project** robot



Raspberry Pi W Flow movie blender [https://de.wikipedia.org/wiki/Flow\\_\(2024\)](https://de.wikipedia.org/wiki/Flow_(2024))

# namita-aravind



recommendation from Neil:

AVR128DB28

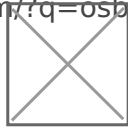
<https://fabacademy.org/2019/labs/waag/students/anne-vlaanderen/assignments/week7.html>





# global class

<https://duckduckgo.com/?q=osb+finishing&t=newext&atb=v454-1&iax=images&ia=images>



<https://rnkol.art/about/> <https://www.thingiverse.com/thing:169723>

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14:52:30 Von Pablo Fab Lab Leon an Alle: Replying to "I have tried the F1 Ultra and the laser seems inco...": Maybe the board is not flat enough? or not the same width in all.

14:52:40 Von andri-fab lab reykjavik an Alle: its already there

14:53:32 Von Claire Lake Mac Libraries Fab Lab an Alle: 6 April in Australia ☐☐

14:53:43 Von Claire Lake Mac Libraries Fab Lab an Alle: Timezones are fun! Fab Lab Akureyri, Aalto Fablab, Luciana Asinari, Adrián - Fab Lab León:[] Ricardo Marques, Fab Lab Akureyri, Pablo Fab Lab Leon, Svavar Konradsson Fab Lab Isafjordur, Adrián - Fab Lab León:[]

14:53:48 Von Pablo Fab Lab Leon an Alle: 4 weeks of delay...cool Claire Lake Mac Libraries Fab Lab: []

14:53:50 Von Adrián - Fab Lab León an Alle: Frosti!!!! Fab Lab Akureyri:[]

14:54:29 Von Ricardo Marques an Alle: Quick question: nueval this week has "Checked your board can be fabricated." what qualifies? since we're only looking at production next week?

14:54:39 Von Claire Lake Mac Libraries Fab Lab an Alle: FMCU - Push the button! Luc Hanneuse-AgriLab, andri-fab lab reykjavik:[]

14:54:44 Von Claire Lake Mac Libraries Fab Lab an Alle: {DE46E4C5-2B02-4E1D-AA5F-6D213578B6F3}.png Norella Coronell, Marius Araújo, Adrián - Fab Lab León, Pablo Fab Lab Leon, Ted, Rico Kanthatham:[]

14:56:24 Von Marius Araújo an Alle: Replying to "{DE46E4C5-2B02-4E1D-AA5F-6D213578B6F3}.png": Wow! Lake Mac is on =D

14:56:40 Von Pablo Fab Lab Leon an Alle: Replying to "{DE46E4C5-2B02-4E1D-AA5F-6D213578B6F3}.png": So the sun isnt moving because the daylight saving? [] Claire Lake Mac Libraries Fab Lab, Adrián - Fab Lab León:[]

14:57:05 Von Noor Ahmed Raza Pirwani an Alle: we use to have a daylight saving concept in the time of dictatorship here in Pakistan

14:57:12 Von Claire Lake Mac Libraries Fab Lab an Alle: Replying to "{DE46E4C5-2B02-4E1D-AA5F-6D213578B6F3}.png": Almost 1am here on the other side of the world Marius Araújo:♥

14:58:10 Von Marius Araújo an Alle: Replying to "{DE46E4C5-2B02-4E1D-AA5F-6D213578B6F3}.png": FMCU is a staple for out fab visitors, but there's very few buttons pressed, usually Claire Lake Mac Libraries Fab Lab:☺

14:58:20 Von Fab Lab Akureyri an Alle: Recent change in Kazakstan:  
<https://astanatimes.com/2023/12/kazakhstan-plans-to-switch-to-single-time-zone-in-2024/>

14:59:46 Von Ricardo Marques an Alle:  
[https://fabacademy.org/2025/nueval/electronics\\_design.html](https://fabacademy.org/2025/nueval/electronics_design.html)

15:00:07 Von Saverio Shanghai an Alle: maybe, make the design rules check? Svavar Konradsson Fab Lab Isafjordur, Pablo Fab Lab Leon, Milliam:[]

15:00:38 Von saheen palayi an Alle: Replying to "maybe, make the design rules check?": both DRC and ERC

15:00:45 Von henk an Alle: ☐

15:00:52 Von Adrián - Fab Lab León an Alle: Replying to "maybe, make the design rules check?": Yes, is only DRC and ERC

15:01:07 Von Rico Kanthatham an Alle: Replying to "maybe, make the design rules check?": So specifying Design Rules this week is required...yes?

15:01:30 Von Pradnya K an Alle: Replying to "{DE46E4C5-2B02-4E1D-AA5F-6D213578B6F3}.png": India - No seasonal adjustment, No daylight saving ☐☐ concept here

15:01:41 Von Ricardo Marques an Alle: ok ty

15:02:04 Von Shintaro Ito:Node japan kannai an Alle: It started today! Fun times!

15:02:03 Von Pablo Fab Lab Leon an Alle: Replying to "{DE46E4C5-2B02-4E1D-AA5F-6D213578B6F3}.png": how can you survive then? ☐☐

15:02:46 Von Pradnya K an Alle: Replying to "{DE46E4C5-2B02-4E1D-AA5F-6D213578B6F3}.png": Just like everyday ☐☐

15:03:04 Von Pablo Fab Lab Leon an Alle: You are part of a network of PEOPLE! Welcome!

15:03:13 Von Shintaro Ito:Node japan kannai an Alle: Turning on the camera may have a positive effect on learning. Some studies have shown that keeping the camera on consistently has a positive impact on students' subjective learning experiences and attention. The visual feedback allows students to focus more on the lesson content, leading to improved comprehension.  
<https://x.gd/1pVTA>

Additionally, from my personal experience, I once provided several months of online training to about 100 people. Some time later, a stranger approached me on the street. I had no recollection of this person at all, but after talking for a bit, I realized they had been one of my students. Back then, they had been too shy to turn on their camera, but meeting me in person made them so happy that they reached out. However, since I couldn't associate their name with a face, I was left feeling nothing but sadness.

For those who keep their cameras off, turning them on still provides an opportunity to build a human connection with Neil.

Rico Kanthatham:☐☐

15:03:23 Von Shintaro Ito:Node japan kannai an Alle: We are still on this journey together.

Of course, if you are attending Fab Academy during an important meeting, have a very weak internet connection, are dealing with some kind of trouble, or hold a strong belief system that requires keeping your camera off, then this does not apply to you.

Thank you for taking the time to read this long message.

Forrest O., Rico Kanthatham:[]

Pablo Fab Lab Leon, Rico Kanthatham:[]

15:04:08 Von Adrián - Fab Lab León an Alle: ♥

15:04:17 Von Pradnya K an Alle: Hey Frosti ...[]

15:04:17 Von Ricardo Marques an Alle: []

15:04:33 Von Jhonatan Cortes an Alle: ♥ Norella Coronell:[]

15:04:44 Von Claire Lake Mac Libraries Fab Lab an Alle: Go Iceland!!!

15:04:47 Von Luciana Asinari an Alle: [][]

15:04:54 Von DavidChan an Alle: ♥

15:04:57 Von Nuria Robles | LEON an Alle: Coool!!![]

15:05:05 Von Rico Kanthatham an Alle: ♥

15:05:07 Von Daniel Perez an Alle: []

15:05:06 Von Maki Laura TANAKA an Alle: []

15:05:11 Von Geovanny Fortín an Alle: ♥

15:05:14 Von Micka - FablabCuenca/ASQ an Alle: ♥

15:05:17 Von Fab Lab Akureyri an Alle: Við erum vinir, við erum vinir. Ég og þú, ég og þú. Leikum okkur saman, leikum okkur saman. Ég og þú, ég og þú. Adrián - Fab Lab León, Svavar Konradsson Fab Lab Isafjordur:♥ Rico Kanthatham, Svavar Konradsson Fab Lab Isafjordur:[]

15:05:18 Von Evelyn Andrea Cuadrado Guerrero an Alle: :D

15:05:17 Von ihlin an Alle: []

15:05:27 Von Neil an Alle: [https://gitlab.fabcloud.org/academany/fabacademy/2025/site/-/blob/main/sizes.md?ref\\_type=heads](https://gitlab.fabcloud.org/academany/fabacademy/2025/site/-/blob/main/sizes.md?ref_type=heads)

15:05:42 Von PAST Innovation Fab Lab an Alle: He is out sick today

15:06:08 Von PAST Innovation Fab Lab an Alle: I already have but will follow up

15:06:38 Von jakob an Alle: qdirstat is also a very nice alternative

or windirstat for windows

Jesal | RIIDL:[]

15:07:11 Von Fab Lab Akureyri an Alle: The inadvertent hacking price: How to bypass the commit size limit: 12 points! Adrián - Fab Lab León:[]

15:07:11 Von Albert - Reykjavík an Alle: What is an appropriate target size?

15:08:04 Von Neil an Alle: <https://gitlab.fabcloud.org/academany/fabacademy/2025/class/-/issues/9>

15:08:48 Von saheen palayi an Alle: Replying to "What is an appropriate target size?": 10 Mb per week , 200 Mb max : )

15:09:01 Von Rico Kanthatham an Alle: woo hoo! global sessions will start at 10pm in Japan from Mar 9 saheen palayi, Fab Lab Akureyri, Pradnya K:[] Shoko KUDOMI, Kazutoshi Tsuda, Ricardo Marques, Fab Lab Akureyri, Jesal | RIIDL, Adrián - Fab Lab León, Hiroe\_West-harima:[] Milliam:[]

15:09:25 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Image 2025-03-05 at 140919.png Ricardo Marques:[] Dylan:[] Pablo Fab Lab Leon, saheen palayi, Fab Lab Akureyri, Rico Kanthatham, Patrick - waag, Adrián - Fab Lab León, Norella Coronell:[]

15:09:27 Von henk an Alle: <https://fabacademy.org/2025/labs/waag/students/yryszhan-sansyzbay>

15:09:33 Von saheen palayi an Alle: Replying to "woo hoo! global sessions will start at 10pm in Jap...": finally u can sleep little early [] Shoko KUDOMI:[]

15:09:43 Von Ricardo Marques an Alle: Replying to "woo hoo! global sessions will start at 10pm in Jap...": Slightly less awful for Austrália too

15:12:49 Von Krisjanis Rijnieks an Alle: it is more edisson vs westinhouse

15:13:00 Von Milliam an Alle: That photo[] Patrick - waag, Pablo Fab Lab Leon, Shintaro Ito:Node japan kannai:[]

15:13:51 Von Krisjanis Rijnieks an Alle: there is a nice book about the AC/DC battle: <https://www.goodreads.com/book/show/7390210-empires-of-light>

15:13:57 Von Pablo Fab Lab Leon an Alle: Replying to "That photo[]": I love this video: <https://www.youtube.com/watch?v=gJ1Mz7kGVf0> Svavar Konradsson Fab Lab Isafjordur, Milliam, Þórarinn Bjartur Breiðfjörð Gunnarsson:[]

15:14:01 Von Shintaro Ito:Node japan kannai an Alle: There's an anecdote about Edison's intense harassment of Tesla over the AC or DC concession.

15:14:25 Von Milliam an Alle: Replying to "That photo[]": 20250305231422.jpg Ricardo Marques, Patrick - waag, Shintaro Ito:Node japan kannai, Adrián - Fab Lab León, Þórarinn Bjartur Breiðfjörð Gunnarsson:✂ Svavar Konradsson Fab Lab Isafjordur:[]



15:15:54 Von Krisjanis Rijnieks an Alle: yeah, the electric chair was edissons way of bullying AC technology. Since Edison was DC guy, he wanted to show that AC is more deadly, thus he lobied for electric chair and built it mostly with parts from AC competitors

15:16:27 Von Krisjanis Rijnieks an Alle: Which at the time was mostly Westinghouse mostly. And Westinghouse hired Tesla to do some AC stuff Shintaro Ito:Node japan kannai:♥

15:16:38 Von Dylan an Alle: avatar.jpg Jeremy Losaw, Ricardo Marques, Camila Luna - FabLab Cuenca ASQ, Norella Coronell:☐☐ Patrick - waag, Þórarinn Bjartur Breiðfjörð Gunnarsson, Fab Lab Akureyri:☐☐

15:18:03 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Remeber the Meme Academy: <https://chat.academany.org/fabacademy-2025/channels/meme-academy> Adrián - Fab Lab León:♥ Dylan, Pablo Fab Lab Leon:☐☐

15:18:07 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Image 2025-03-05 at 141729.png Ricardo Marques, Patrick - waag, Svavar Konradsson Fab Lab Isafjordur, Shintaro Ito:Node japan kannai:☐☐☐

15:19:33 Von Rico Kanthatham an Alle: Go Ashish!!! Shoko KUDOMI, saheen palayi:☐☐

15:21:28 Von Bart -SP Fablab an Alle: Hi all Patrick - waag:☐☐ Ted, Rico Kanthatham:☐☐

15:21:42 Von Rico Kanthatham an Alle: buttermilk = Bartholomew in Singapore! Bart -SP Fablab, Jesal | RIIDL, Adrián - Fab Lab León:♥ saheen palayi, Jesal | RIIDL:☐☐

15:22:08 Von Bart -SP Fablab an Alle: [for.edu.sg/bart](https://for.edu.sg/bart)

15:22:20 Von Bart -SP Fablab an Alle: <https://for.edu.sg/bart>

15:22:51 Von Bart -SP Fablab an Alle: Final project Pradnya K:♥

15:25:41 Von Dylan an Alle: Replying to "Final project": Amazing work, Bart! Bart -SP Fablab:♥

15:26:01 Von Adrián - Fab Lab León an Alle: Yeahhh ATtiny412!!! Midhun Joseph, saheen palayi, Hiroe\_West-harima:♥ Rico Kanthatham, Svavar Konradsson Fab Lab Isafjordur:☐☐

15:26:36 Von Milliam an Alle: Yay~!! ATTINY!!! Adrián - Fab Lab León, Hiroe\_West-harima, Jeremy Losaw:☐☐

15:26:38 Von Adrián - Fab Lab León an Alle: Replying to "Yeahhh ATtiny412!!!": Less than 1\$ Milliam:☐☐

15:27:55 Von Rico Kanthatham an Alle: Let's give Maestro Kris a round of applause!!! Milliam, Patrick - waag, Claire Lake Mac Libraries Fab Lab, henk, Pablo Fab Lab Leon, Sabareesh G, Naldi Carrion, andri-fab lab reykjavik, Ricardo Marques, Gayatri projects, Shoko KUDOMI, Rico Kanthatham, Adrián - Fab Lab León, Dylan, Þórarinn Bjartur Breiðfjörð Gunnarsson, Bart -SP Fablab,

Svavar Konradsson Fab Lab Isafjordur, Lars Mattern - HRW Fablab, Matthias: Jesal | RIIDL, Patrick - waag, Adrián - Fab Lab León, Sabareesh G: saheen palayi, Adrián - Fab Lab León, Patrick - waag, Sabareesh G, andri-fab lab reykjavik, Bart -SP Fablab, Hiroe\_West-harima, Pradnya K:

15:28:57 Von Krisjanis Rijnieks an Alle: Replying to "Let's give Maestro Kris a round of applause!!!": Thank you guys. It means a lot. Adrián - Fab Lab León, Rico Kanthatham, Patrick - waag, Jesal | RIIDL, Pórarinn Bjartur Breiðfjörð Gunnarsson, Hiroe\_West-harima, Milliam, Matthias, Shoko KUDOMI: Ricardo Marques:

15:31:59 Von Daniel Mateos an Alle: Thank you Kris! The libraries are incredibly useful Tshering Dorji JNWSFL, Aalto Fablab:♥

15:33:07 Von Pablo Fab Lab Leon an Alle: Great job Ashish!!!!

15:33:23 Von Midhun Joseph an Alle: Nice work Ashish

15:33:27 Von Rico Kanthatham an Alle: Ashish! Nice improvement from Asia Review. Shoko Score 10! Midhun Joseph, Shoko KUDOMI, Milliam, Adrián - Fab Lab León, saheen palayi, Tshering Dorji JNWSFL, Hiroe\_West-harima:

15:34:16 Von Shintaro Ito:Node japan kannai an Alle: Fashionable!

15:34:31 Von saheen palayi an Alle: Replying to "Nice work Ashish": Midhun Joseph:☺

15:34:47 Von Adrián - Fab Lab León an Alle: Awesome Ashish!!

15:35:11 Von Rico Kanthatham an Alle: you are muted Neil

15:35:34 Von Neil an Alle: <http://archive.fabacademy.org/archives/2017/fablabbcn/students/4/>

15:40:54 Von Milliam an Alle: Let's go Dorji~! Dorji Gyeltshen, JNEC bhutan:♥

15:40:57 Von Rico Kanthatham an Alle: woo hoo...go Dorji Gyeltshen! Tshering Dorji JNWSFL, Dorji Gyeltshen, JNEC bhutan:♥ saheen palayi:

15:41:48 Von Saverio Shanghai an Alle: go go go! Tshering Dorji JNWSFL, Dorji Gyeltshen, JNEC bhutan:♥

15:47:44 Von Adrián - Fab Lab León an Alle: Doppler radar

15:47:51 Von Adrián - Fab Lab León an Alle: Time of flight

15:49:01 Von Adrián - Fab Lab León an Alle: Replying to "Time of flight": Time of flight with the RP2040. <https://fabacademy.org/2020/labs/leon/students/adrian-torres/fabxiao.html#flight2>

Dopple Radar:

<https://fabacademy.org/2020/labs/leon/students/adrian-torres/fabxiao.html#radar>

15:49:52 Von Anith Ghalley an Alle: ☐☐ Rico Kanthatham:☐☐

15:50:01 Von Adrián - Fab Lab León an Alle: Camila Camila Luna - FabLab Cuenca ASQ:♥

15:50:37 Von Ricardo Marques an Alle: [https://www.instagram.com/moon\\_makers\\_/](https://www.instagram.com/moon_makers_/) Camila Luna - FabLab Cuenca ASQ:♥ Nuria Robles | LEON:☐☐

15:50:53 Von Rico Kanthatham an Alle: Go go Camila!! Camila Luna - FabLab Cuenca ASQ:♥

15:52:32 Von Matthias an Alle: <https://www.moonmakers.org/> Svavar Konradsson Fab Lab Isafjordur:♥

15:53:13 Von Nuria Robles | LEON an Alle: ♥ Doaa El-Bess, saheen palayi:♥

15:55:41 Von Terence Fagan an Alle: ☐☐ Matthias:☐☐

15:56:34 Von Ricardo Marques an Alle: That's not a fab library footprint.

15:57:39 Von Pablo Fab Lab Leon an Alle: Super cheatsheet!

15:58:31 Von Rico Kanthatham an Alle: Fantastic documentation Camila!!! Doaa El-Bess, Camila Luna - FabLab Cuenca ASQ:☐☐

15:58:37 Von Adrián - Fab Lab León an Alle: Nice documentation Camila!! Ricardo Marques, Norella Coronell, Camila Luna - FabLab Cuenca ASQ:☐☐

15:59:17 Von Milliam an Alle: Way to go Camila Camila Luna - FabLab Cuenca ASQ:♥

15:59:46 Von Aristarco an Alle: Love your Work Camila! Camila Luna - FabLab Cuenca ASQ:♥ Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:☐☐

16:01:20 Von Norella Coronell an Alle: Great work Camila!!

16:02:59 Von henk an Alle: Camila look at contemporary craft book by astrid done in fabacademy 2012 <https://fabacademy.org/archives/2012/students/lubsen.astrid/Finalproject.html> Adrián - Fab Lab León, Milliam, Camila Luna - FabLab Cuenca ASQ:♥

16:03:59 Von henk an Alle: i see the videos...

16:04:54 Von Matthias an Alle: i see the videos... Can you maybe upload the videos?

16:06:32 Von Rico Kanthatham an Alle: @Camila Luna - FabLab Cuenca ASQ

Have a look at this Fabricademy project too. <https://class.textile-academy.org/2023/ieva-dautartaite/project/>  
Adrián - Fab Lab León, Milliam, Matthias, Nuria Robles | LEON, Eman Elkfrawy| Egypt:♥  
Micka - FablabCuenca/ASQ:☐

16:08:11 Von Neil an Alle: <https://nbss.edu/full-time-programs/bookbinding/>

16:09:53 Von Pablo Fab Lab Leon an Alle: stop adding more inspiration! ☐ Milliam, Claire Lake Mac Libraries Fab Lab, Patrick - waag, Camila Luna - FabLab Cuenca ASQ, Tshering Dorji JNWSFL:☐

16:10:11 Von Rico Kanthatham an Alle: go Kezang!!!! Tshering Dorji JNWSFL:♥ Tshering Dorji JNWSFL:☐

16:10:32 Von Tshering Wangzom an Alle: Bhutan is popular today. Milliam, Claire Lake Mac Libraries Fab Lab, Dorji Gyeltshen, JNEC bhutan:☐ Dorji Gyeltshen, JNEC bhutan, SAHEEN PALAYI:☐

16:11:12 Von Sophia (Node Ilmenau) an Alle: This project reminds me of this:  
<https://www.elektronik-labor.de/Lernpakete/Kalender18/SpieleKalender18.html> its an advent calender. Every day you uncover a new electronic component to make a new game! The games are quite simple and reminiscent of the 80s.

16:11:51 Von Rico Kanthatham an Alle: Replying to "Bhutan is popular today.": Bhutan is popular everyday! Adrián - Fab Lab León:☐

16:12:22 Von Krisjanis Rijnieks an Alle: Replying to "This project reminds me of this:  
<https://www.elekt...>": This one is interesting

16:12:24 Von Camila Luna - FabLab Cuenca ASQ an Alle: Thanks to everyone! Rico Kanthatham, Matthias, Adrián - Fab Lab León, Shoko KUDOMI:♥ Dorji Gyeltshen, JNEC bhutan, Yuichi TAMIYA:☐ SAHEEN PALAYI:☐

16:12:27 Von Krisjanis Rijnieks an Alle: Replying to "This project reminds me of this:  
<https://www.elekt...>": Noted

16:13:58 Von Adrián - Fab Lab León an Alle: mods!!!

16:14:16 Von Adrián - Fab Lab León an Alle: Replying to "mods!!!": Great job Kezang!!

16:14:32 Von Rico Kanthatham an Alle: she means she is documenting her FP on the development page

16:14:58 Von Milliam an Alle: BayMAX?! Micka - FablabCuenca/ASQ, Gonzalo, Elen Grigoryan, Tshering Dorji JNWSFL:♥

16:15:07 Von Rico Kanthatham an Alle: Replying to "BayMAX?!": BayMini Claire Lake Mac Libraries Fab Lab:♥

16:15:14 Von henk an Alle: R2D2

16:15:24 Von Claire Lake Mac Libraries Fab Lab an Alle: Replying to "BayMAX?!": I want one!

16:15:26 Von Milliam an Alle: Eve~'

16:15:54 Von Adrián - Fab Lab León an Alle: Kokoro

<https://fabacademy.org/2023/labs/kamakura/students/claire-chaikin/fp/> Claire Lake Mac Libraries Fab Lab:♥

16:15:59 Von Jani Ylioja an Alle: super nice cardboard models for first spirals! Milliam:☐☐

16:16:06 Von Claire Lake Mac Libraries Fab Lab an Alle: Challenge -> make it a soft robot Adrián - Fab Lab León:☐☐

16:16:19 Von Adrián - Fab Lab León an Alle: Replying to "Kokoro

<https://fabacademy.org/2023/labs/kamakura/s...>: By Claire!

16:16:26 Von Milliam an Alle: 20250306001622.jpg Claire Lake Mac Libraries Fab Lab, Adrián - Fab Lab León, Kerstin, Camila Luna - FabLab Cuenca ASQ, Ricardo Marques, Shoko KUDOMI:♥

16:17:03 Von Krisjanis Rijnieks an Alle: Btw. Forgot to mention. Maybe some of you noticed. The Latvian cat movie won an Oscar. <https://www.reuters.com/lifestyle/flow-wins-best-animated-feature-film-oscar-2025-03-03/> Tshering Dorji JNWSFL, Silvia Lugo, Camila Luna - FabLab Cuenca ASQ:♥ Forrest O.:☐☐☐ Ricardo Marques:☐☐ Adrián - Fab Lab León, Claire Lake Mac Libraries Fab Lab, Svavar Konradsson Fab Lab Isafjordur, Tshering Dorji JNWSFL, Rico Kanthatham:☐☐

16:17:21 Von Adrián - Fab Lab León an Alle: Replying to "Btw. Forgot to mention. Maybe some of you noticed....": Yes with Blender!! Tshering Dorji JNWSFL, Claire Lake Mac Libraries Fab Lab:♥

16:17:30 Von Krisjanis Rijnieks an Alle: Replying to "Btw. Forgot to mention. Maybe some of you noticed....": Yes. Cat movie made in Blender

16:17:48 Von Krisjanis Rijnieks an Alle: Replying to "Btw. Forgot to mention. Maybe some of you noticed....": No human language. Cat language only Adrián - Fab Lab León:♥ Claire Lake Mac Libraries Fab Lab:☐☐ Ricardo Marques:☐☐

16:18:36 Von Svavar Konradsson Fab Lab Isafjordur an Alle: There's a Raspberry Pi Pico symbol and footprint in the fab KiCad library SAHEEN PALAYI:♥

16:18:44 Von Claire Lake Mac Libraries Fab Lab an Alle: Raspberry Pi Pico is your friend ☐☐

16:18:50 Von Ricardo Marques an Alle: some of the castelated pins on the Pico W are shared with the wifi chip. In case someone really needs all those pins

16:19:12 Von Camila Luna - FabLab Cuenca ASQ an Alle: Replying to "Btw. Forgot to mention. Maybe some of you noticed....": So cool!!!

16:19:15 Von Rico Kanthatham an Alle: gooooooooo Blender!!! Ricardo Marques, Tshering Dorji JNWSFL:☐

16:19:21 Von Camila Luna - FabLab Cuenca ASQ an Alle: Replying to "ooooooooo Blender!!!": !!!!!!!!!

16:19:28 Von Silvia Lugo an Alle: Replying to "ooooooooo Blender!!!": gooooo

16:19:39 Von Claire Lake Mac Libraries Fab Lab an Alle: Replying to "ooooooooo Blender!!!": woot woot

16:19:43 Von Rico Kanthatham an Alle: Replying to "ooooooooo Blender!!!": rendered in the simpler Eevee renderer...amazing Adrián - Fab Lab León:♥

16:19:46 Von Camila Simsiroglu an Alle: Replying to "ooooooooo Blender!!!": Long live blender Rico Kanthatham:♥

16:19:52 Von Pablo Fab Lab Leon an Alle: Replying to "ooooooooo Blender!!!": but they need to go to geometry nodes right? ☐ Claire Lake Mac Libraries Fab Lab:☐

16:19:59 Von Rico Kanthatham an Alle: Replying to "Btw. Forgot to mention. Maybe some of you noticed....": Go Latvia!

16:20:18 Von Dylan an Alle: luke.jpeg Camila Luna - FabLab Cuenca ASQ:☐ Patrick - waag, Silvia Lugo, Jhonatan Cortes, Adrián - Fab Lab León:☐

16:20:22 Von Rico Kanthatham an Alle: Is Natima on?

16:20:24 Von Ricardo Marques an Alle: global silence strikes again Camila Luna - FabLab Cuenca ASQ, Tshering Dorji JNWSFL, Patrick - waag, Jhonatan Cortes, Hiroe\_West-harima, Pablo Fab Lab Leon, Dylan, Adrián - Fab Lab León:☐

16:20:28 Von Adrián - Fab Lab León an Alle: C´mon!!! Tshering Dorji JNWSFL:☐

16:20:34 Von Fab Lab Akureyri an Alle: I know somebody did!

16:20:41 Von Milliam an Alle: ☐

16:20:46 Von Jani Ylioja an Alle: no tangible results --> silence

16:20:58 Von Rico Kanthatham an Alle: Natima in Kerela made a cool board...her 1st week in Fabacademy! Milliam:☐

16:20:59 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: everyone made a square circuit? Dylan, Adrián - Fab Lab León, Shoko KUDOMI:☐

16:21:03 Von Superfablab Kochi an Alle: <https://fabacademy.org/2025/labs/kochi/students/namita-aravind/assignments/week06.html> andri-fab lab reykjavik, Tshering Dorji JNWSFL:♥

16:21:10 Von Camila Luna - FabLab Cuenca ASQ an Alle: Replying to "everyone made a square circuit?": Guilty Dylan:☐ Adrián - Fab Lab León, Þórarinn Bjartur Breiðfjörð Gunnarsson, Milliam:☐

16:21:24 Von Rico Kanthatham an Alle: Replying to "goooooooooo Blender!!!": GN is for ultra nerds only Tshering Dorji JNWSFL:☐ Jesal | RIIDL:☐ Ricardo Marques:☐ Claire Lake Mac Libraries Fab Lab:☐

16:21:25 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Replying to "<https://fabacademy.org/2025/labs/kochi/students/na...>": Nice that's cool!

16:22:13 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Replying to "everyone made a square circuit?": We have all been there :D

16:22:13 Von Adrián - Fab Lab León an Alle: Replying to "everyone made a square circuit?": I told this in the Global Open Time

16:23:04 Von Rico Kanthatham an Alle: Replying to "<https://fabacademy.org/2025/labs/kochi/students/na...>": oops!!! Sorry for destroying your name Namita!

16:23:15 Von Superfablab Kochi an Alle: <https://fabacademy.org/2025/labs/kochi/students/namita-aravind/assignments/week06.html>

16:24:03 Von Ricardo Marques an Alle: 1st week straight to electronics design. talk about hitting the ground running

16:24:28 Von Pablo Fab Lab Leon an Alle: Arcade!

16:24:29 Von Jesal | RIIDL an Alle: galaxian !

16:24:31 Von Ricardo Marques an Alle: ☐ Forrest O., Mkhitar Evoyan:☐

16:24:33 Von Silvia Lugo an Alle: oohh so cool☐

16:24:34 Von Adrián - Fab Lab León an Alle: Nice job Namita!!

16:24:35 Von Lars Mattern - HRW Fablab an Alle: A Space Invader PCB ☐ Camila Luna - FabLab Cuenca ASQ, Jesal | RIIDL:♥

16:24:46 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Go Space invaders! Tshering Dorji JNWSFL:♥ Jeremy Losaw:☐

16:24:57 Von Camila Luna - FabLab Cuenca ASQ an Alle: I love it!!!

16:25:04 Von Rico Kanthatham an Alle: What an awesome debut Namita!

16:25:16 Von Claire Lake Mac Libraries Fab Lab an Alle: Reminds me of a replicator...or maybe I'm watching too much Stargate lately Ricardo Marques, Jesal | RIIDL:♥

16:25:39 Von Ricardo Marques an Alle: Replying to "Reminds me of a replicator...or maybe I'm watching...": very niche reference there xD Claire Lake Mac Libraries Fab Lab:☐☐ Jesal | RIIDL:☐☐

16:27:24 Von Jesal | RIIDL an Alle: Replying to "Reminds me of a replicator...or maybe I'm watching...": Indeed. Claire Lake Mac Libraries Fab Lab:☐☐

16:28:32 Von Milliam an Alle: 202503060028300000.jpg Claire Lake Mac Libraries Fab Lab, andri-fab lab reykjavik, Tshering Dorji JNWSFL, Ricardo Marques, Ted, saheen palayi:♥ Nuria Robles | LEON:☐☐ Pablo Fab Lab Leon, Adrián - Fab Lab León, SAHEEN PALAYI, Patrick - waag, Svavar Konradsson Fab Lab Isafjordur, Hiroe\_West-harima, Jesal | RIIDL:☐☐ olof:☐☐

16:28:44 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Image 2025-03-05 at 152838.png Fab Lab Barcelona:♥ Ricardo Marques:☐☐ Milliam, Patrick - waag, SAHEEN PALAYI, Camila Luna - FabLab Cuenca ASQ, Claire Lake Mac Libraries Fab Lab, olof:☐☐

16:29:04 Von Pablo Fab Lab Leon an Alle: HenkChip olof:☐☐ Adrián - Fab Lab León:☐☐

16:29:13 Von Krisjanis Rijnieks an Alle: Henkudino Tshering Wangzom, Jani Ylioja, Adrián - Fab Lab León:☐☐ Pablo Fab Lab Leon, Eman Elkfrawy| Egypt, Adrián - Fab Lab León:☐☐

16:29:18 Von Adrián - Fab Lab León an Alle: Replying to "202503060028300000.jpg": Non square boards hehehe:

16:29:22 Von Adrián - Fab Lab León an Alle: Replying to "202503060028300000.jpg": {05FE6372-A7F2-474C-80CA-D6E5EB7A0E16}.png andri-fab lab reykjavik, Hiroe\_West-harima, Nuria Robles | LEON, Jesal | RIIDL:♥

16:29:32 Von Milliam an Alle: Xiao-henk

16:29:34 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: I will buy it!

16:29:39 Von Rico Kanthatham an Alle: Henk-CU Aalto Fablab:☐☐

16:29:50 Von henk an Alle: <https://fabacademy.org/2019/labs/waag/students/anne-vlaanderen/assignments/week7.html> hello henk board Luciana Asinari, Adrián - Fab Lab León:☐☐ Dylan, Aalto Fablab:☐☐ Camila Luna - FabLab Cuenca ASQ, Patrick - waag:☐☐ Milliam:☐☐

16:30:41 Von Krisjanis Rijnieks an Alle: Replying to "Henk-CU": IC-Henk

16:31:06 Von DGI an Alle: Replying to "Henk-CU": yes sir



16:31:22 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Replying to "https://fabacademy.org/2019/labs/waag/students/ann...": How many Henk board are there this is becoming a collection! Patrick - waag:☐

16:31:30 Von DGI an Alle: Replying to "Henk-CU": its only if you are available

16:31:49 Von Jesal | RIIDL an Alle: Replying to "https://fabacademy.org/2019/labs/waag/students/ann...": @Þórarinn Bjartur Breiðfjörð Gunnarsson Gotta catch em all ? Þórarinn Bjartur Breiðfjörð Gunnarsson:☐

16:41:05 Von Adrián - Fab Lab León an Alle: ☐ FAB Month 2025: Be Part of the Global Stage! ☐☐☐

Have a great project, insight, or innovation to share? FAB Month is your opportunity to showcase your work, connect with a global audience, and inspire the future of digital fabrication & emerging technologies!

☐ Why participate?

- ✓ Share your insights & breakthroughs
- ✓ Inspire makers & innovators worldwide
- ✓ Connect with a global network of changemakers
- ✓ Expand opportunities for collaboration

☐☐ Want to be part of it? Submit your talk proposal today!

☐☐ Apply here ☐☐

[https://docs.google.com/forms/u/1/d/e/1FAIpQLSf5IADPG7gBPotHb2pbbel4oLuch9LcIDh6w4HwtD4RcsXAdA/viewform?usp=send\\_form](https://docs.google.com/forms/u/1/d/e/1FAIpQLSf5IADPG7gBPotHb2pbbel4oLuch9LcIDh6w4HwtD4RcsXAdA/viewform?usp=send_form)

Let's build, innovate, and make an impact together! ☐☐☐

andri-fab lab reykjavik:♥

Rico Kanthatham:☐

16:44:29 Von Rico Kanthatham an Alle: Ferdi's camera looks like a documentary movie on a fablab. Adrián - Fab Lab León:♥ Enterprise fablab, Camila Luna - FabLab Cuenca ASQ, Milliam, Patrick - waag:☐

16:44:44 Von Rico Kanthatham an Alle: Replying to "Ferdi's camera looks like a documentary movie on a...": insert dialogue as you wish!

16:44:51 Von Adrián - Fab Lab León an Alle: Replying to "Ferdi's camera looks like a documentary movie on a...": F-A-B F-A-B

16:45:02 Von Adrián - Fab Lab León an Alle: Replying to "Ferdi's camera looks like a documentary movie on a...": Document as you go!! Claire Lake Mac Libraries Fab Lab, Rico Kanthatham:☐

16:45:17 Von Rico Kanthatham an Alle: Replying to "Ferdì's camera looks like a documentary movie on a...": man in read shirt "should we use the Xiao...or go old school" Camila Luna - FabLab Cuenca ASQ:[] Adrián - Fab Lab León:[]

16:45:25 Von Pablo Fab Lab Leon an Alle: Replying to "Ferdì's camera looks like a documentary movie on a...": It slike the 24 Serie.

16:45:30 Von Rico Kanthatham an Alle: Replying to "Ferdì's camera looks like a documentary movie on a...": man in blue shirt "what are you guys talking about?"

16:45:41 Von Rico Kanthatham an Alle: Replying to "Ferdì's camera looks like a documentary movie on a...": man in black shirt "..."

16:45:45 Von Pablo Fab Lab Leon an Alle: Replying to "Ferdì's camera looks like a documentary movie on a...": Leaves the room... Rico Kanthatham, Adrián - Fab Lab León, Kerstin:[]

16:46:07 Von Pablo Fab Lab Leon an Alle: Replying to "Ferdì's camera looks like a documentary movie on a...": Smart conversation between two...

16:46:08 Von Claire Lake Mac Libraries Fab Lab an Alle: Replying to "Ferdì's camera looks like a documentary movie on a...": Wonder if they'll notice this chat []

16:46:23 Von Pablo Fab Lab Leon an Alle: Replying to "Ferdì's camera looks like a documentary movie on a...": hope no XD Camila Luna - FabLab Cuenca ASQ, Claire Lake Mac Libraries Fab Lab:[]

16:46:56 Von Pablo Fab Lab Leon an Alle: Frosti try to present something...

16:47:30 Von Nuria Robles | LEON an Alle: [][]

16:47:33 Von Jhonatan Cortes an Alle: ♥

16:47:37 Von Aristarco an Alle: []

16:47:43 Von Rico Kanthatham an Alle: ♥

16:47:48 Von Adrián - Fab Lab León an Alle: []

16:47:49 Von Claire Lake Mac Libraries Fab Lab an Alle: ♥

16:48:08 Von yaorun an Alle: []

16:48:10 Von Fab Lab Akureyri an Alle: <https://www.guitarparty.com/songs/grisinn-datt-galar-katt/>

16:48:29 Von Shintaro Ito:Node japan kannai an Alle: I don't understand the language, but I just know it's cute. Florimond Chu (FabLab SP), Ricardo Marques, Jhonatan Cortes:[]

16:48:51 Von Jani Ylioja an Alle: nils holgersson?

16:49:20 Von Rico Kanthatham an Alle: we need those singers at Saturday GOT! Adrián - Fab Lab León, Milliam, Ricardo Marques:☐☐

16:49:28 Von Pablo Fab Lab Leon an Alle: Class wont start until 90% camera is on XD

16:49:47 Von Ricardo Marques an Alle: Replying to "Class wont start until 90% camera is on XD": see everyone next week! ☐☐

16:49:56 Von Fab Lab Akureyri an Alle: The piglet is happily croaking high in the fir tree. A mouse is sneaking into the house, she wants to get a sniff. A lamb is quickly croaking chocolate, A little pig is croaking. The piglet is happily croaking high in the fir tree. The cow is horned, A little sheep is croaking. The goat is dancing happily with the heifer. The ox is neighing, The piglet is happily croaking high in the fir tree. The cat is laughing, sharpening its claws, He is barking loudly. The hen is crowing, Jumping around and humming. The cat is barking, The piglet is crowing. The piglet is happily croaking in the spruce tree high up. The malt is broken, the salt is bent, Soon the poem is all over. Adrián - Fab Lab León, Rico Kanthatham, jakob, Shintaro Ito:Node japan kannai:☐☐ Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab, olof:☐☐

16:50:02 Von Fab Lab Akureyri an Alle: Google translate Claire Lake Mac Libraries Fab Lab:☐☐

16:53:27 Von Shintaro Ito:Node japan kannai an Alle: So big

16:54:56 Von Ricardo Marques an Alle: oh, new maslow, that's cool. earlier versions were vertical. new one's horizontal ♥

16:56:10 Von saheen palayi an Alle: [https://www.kickstarter.com/projects/2130625347/goliath-cnc-an-autonomous-robotic-machine-tool-for A Similar to shaper 3D \( but no need to do hand assist\)](https://www.kickstarter.com/projects/2130625347/goliath-cnc-an-autonomous-robotic-machine-tool-for-A-Similar-to-shaper-3D-(but-no-need-to-do-hand-assist))

16:58:12 Von jakob an Alle: tools for designing 3d things from 2d: - <http://www.flatfab.com/> - <https://kyub.com/>

16:58:43 Von Ricardo Marques an Alle: cnc from the 60s  
<https://www.youtube.com/watch?v=zvicnzyprOg>

17:03:55 Von Ricardo Marques an Alle: osb doesn't have predictable thickness so be aware that it's hard to do press-fits with it Patrick - waag, Micka - FablabCuenca/ASQ:☐☐

17:04:20 Von saheen palayi an Alle: we received all the machines in fablab with the packaging of OSB sheets : )

17:08:50 Von Ricardo Marques an Alle: mcmaster-carr is known as one of the fastest websites on the web

17:08:54 Von jakob an Alle: can you somehow fold plywood if one cuts it in a specific way?

17:09:09 Von jakob an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": allright

17:10:16 Von Patrick - waag an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": technically we did it with the laser week with the flexible design parts

17:10:38 Von Adrián - Fab Lab León an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": Yes here you can find it <https://fabacademy.org/2020/labs/leon/students/adrian-torres/week07.html>

17:11:01 Von Adrián - Fab Lab León an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": <https://vimeo.com/397638800>

17:11:28 Von jakob an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": thanks!

17:12:01 Von Adrián - Fab Lab León an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": But at the end it broke ☹️

17:12:07 Von Adrián - Fab Lab León an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": {16C58EA4-3350-4036-AE63-5F97D853438F}.png

17:12:15 Von jakob an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": ah unfortunate.

17:13:09 Von Adrián - Fab Lab León an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": During the COVID time ☹️

17:13:13 Von jakob an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": this seems a bit risky. we do not have much time this week for working with the cnc milling machine. so i would rather go without these edges. no time to experiment :/

17:13:27 Von jakob an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": so i would rather go with the standard joints and see what i can do with that.

17:14:16 Von Adrián - Fab Lab León an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": You can do a little test like the one in the video.

17:15:35 Von Milliam an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": 20250306011524.png Adrián - Fab Lab León, Svavar Konradsson - Fab Lab Isafjordur, Tshering Dorji JNWSFL, Ricardo Marques, Nuria Robles | LEON:♥ Pablo Fab Lab Leon:☹️

17:16:01 Von Ricardo Marques an Alle: coatings will depend on the material you're working with. Coatings containing aluminium can cause problems when cutting aluminium for exemple.

17:17:00 Von Milliam an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": 20250306011652.png Adrián - Fab Lab León, Tshering Dorji JNWSFL:♥ Ricardo Marques:☹️ Pablo Fab Lab Leon:☹️

17:17:10 Von Pablo Fab Lab Leon an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": which wood is this?

17:17:24 Von Milliam an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": Plywood

17:18:06 Von Pablo Fab Lab Leon an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": the quality is the key Milliam:☐

17:18:18 Von Adrián - Fab Lab León an Alle: Replying to "can you somehow fold plywood if one cuts it in a s...": In my case, it broke along the grain of the wood. Milliam:☐

17:20:34 Von Ricardo Marques an Alle: note about ball end-mills, a very good portion of cheaper ball end-mills don't really have a predictable radius at the tip so dimensional accuracy isn't guaranteed. for mold making if the ball tip is very small it doesn't matter as much.

17:20:42 Von Steven an Alle: Wouldn't a straight flute endmill also produce good top & bottom surface finishes, though not as good in removing chips.

17:21:35 Von Steven an Alle: I've seen some cnc sites recommend these for wood machining.

17:22:32 Von andri-fab lab reykjavik an Alle: Fab Lab Feeds and Speeds Calculator [https://pub.pages.cba.mit.edu/feed\\_speeds/](https://pub.pages.cba.mit.edu/feed_speeds/) Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:☐

17:22:37 Von Pablo Fab Lab Leon an Alle: its great to use it, just check speed to have not much heat on the material

17:22:38 Von Ricardo Marques an Alle: there are some flat end mills with chip breakers that help with some materials too

17:22:53 Von Ricardo Marques an Alle: Replying to "there are some flat end mills with chip breakers t...": like cork

17:25:06 Von Aristarco an Alle: Many vendors already gives the chipload, cut Depth and feed rate for their bits. Amana site is great. Adrián - Fab Lab León:♥

17:25:07 Von Aristarco an Alle: [https://www.amanatool.com/pub/media/productattachments/Carbide-Tipped-Straight-Plunge-Speed-Chart\\_v6.pdf](https://www.amanatool.com/pub/media/productattachments/Carbide-Tipped-Straight-Plunge-Speed-Chart_v6.pdf) Ricardo Marques:♥

17:26:10 Von jakob an Alle: what do you mean by "light" and "heavy metal machining"?

17:26:21 Von Ricardo Marques an Alle: Replying to "what do you mean by "light" and "heavy metal machi...": aluminium vs ferrous, for example

17:26:30 Von jakob an Alle: Replying to "what do you mean by "light" and "heavy metal machi...": allright

17:26:35 Von Jakob an Alle: Replying to "what do you mean by "light" and "heavy metal machi...": thanks :) Ricardo Marques:☐☐

17:27:28 Von Ricardo Marques an Alle: Replying to "what do you mean by "light" and "heavy metal machi...": even a 3018 can machine aluminium, even if it doesn't like it. For iron you need a lot of rigidity and power.

17:28:18 Von Garrett Nelson an Alle: toolmaker vise

17:28:35 Von Adrián - Fab Lab León an Alle: Replying to "what do you mean by "light" and "heavy metal machi...": This week it's more about wood... not aluminum.

17:28:39 Von Haw Ren - SG FabLab an Alle: V-cutter should be used when cutting organic surface... but the cons will be taking too much time to mill... as the total of layers required will be doubled or tripled...

17:31:36 Von Ricardo Marques an Alle: mistakes were made during last year's challenge in Mexico ☐☐

17:31:42 Von Ricardo Marques an Alle: 20240801\_151200.jpg Daniel Perez, Tshering Dorji JNWSFL: ☐☐ Aristarco, Claire Lake Mac Libraries Fab Lab, Milliam:☐☐ Camila Luna - FabLab Cuenca ASQ, Doaa El-Bess:☐☐

17:32:01 Von Patrick - waag an Alle: Replying to "20240801\_151200.jpg": rip Ricardo Marques:☐☐

17:33:00 Von Patrick - waag an Alle: fun fact in French we call it martyr Fab Lab Akureyri, Aristarco:♥

17:33:40 Von Pablo Fab Lab Leon an Alle: Replying to "fun fact in French we call it martyr": Spanish: Martir. Patrick - waag:☐☐

17:33:42 Von Adrián - Fab Lab León an Alle: If the laser is dangerous, CNC machine is much more so. Any noise or something strange stops. If the end-mill is loose, this can happen:

<https://fabacademy.org/2020/labs/leon/students/adrian-torres/images/week07/week07.24.jpg>

17:34:49 Von Ricardo Marques an Alle: Replying to "fun fact in French we call it martyr": Portuguese: Mártir. ☐☐

17:35:12 Von Patrick - waag an Alle: Replying to "If the laser is dangerous, CNC machine is much more...": I do not get it

the mill dropped down ?

17:35:29 Von Ricardo Marques an Alle: Replying to "If the laser is dangerous, CNC machine is much more...": yeah, if you don't tight it enough Patrick - waag:☐☐

17:35:38 Von Adrián - Fab Lab León an Alle: Replying to "If the laser is dangerous, CNC machine is much mor...": @Patrick - waag YES Patrick - waag:[]

17:35:45 Von jakob an Alle: Replying to "fun fact in French we call it martyr": totally unrelated, but this reminds me on a tremendous musician: amor satyr i always recommend him to everybody who did not manage to end a conversation with me early enough.

<https://wajang.bandcamp.com/track/twinkle>

17:36:16 Von Ricardo Marques an Alle: Replying to "If the laser is dangerous, CNC machine is much mor...": for serious metal cutting the end mills even have a notch so they are locked and can't be pulled from the collet <https://www.championcuttingtool.com/images/items/601T-FLAT.jpg> Patrick - waag:[]

17:36:43 Von jakob an Alle: Replying to "fun fact in French we call it martyr": the above is partly a joke. difficult to convey in text, sorry ^^' Patrick - waag:[]

17:38:18 Von Patrick - waag an Alle: and to think they did that before CAD...

17:38:22 Von Patrick - waag an Alle: Replying to "and to think they did that before CAD...": respect

17:46:12 Von Ricardo Marques an Alle: <https://www.bricsys.com/blog/everything-you-need-to-know-about-dogbone-fillets> Patrick - waag, Matthias:[] Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:[]

17:47:11 Von Jóhannes an Alle: dogbone addin for Fusion <https://tapnair.github.io/Dogbone/> Pablo Fab Lab Leon:[] Patrick - waag, Svavar Konradsson - Fab Lab Isafjordur:[]

17:47:49 Von Ricardo Marques an Alle: You'll have a lot of those when machining OSB

17:48:10 Von Adrián - Fab Lab León an Alle: DDFFA8B2-8D41-400E-B64C-549E4FE291B3.png Camila Luna - FabLab Cuenca ASQ, Matthias, Jesal | RIIDL, Svavar Konradsson - Fab Lab Isafjordur, Tshering Dorji JNWSFL:[] Patrick - waag, Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab, Matthias, Artturi Vuorinen:[]

17:48:24 Von Ricardo Marques an Alle: Replying to "You'll have a lot of those when machining OSB": [https://fabacademy.org/2022/labs/fct/students/ricardo-marques/images/week08/Cut\\_OSBIrregularity.jpg](https://fabacademy.org/2022/labs/fct/students/ricardo-marques/images/week08/Cut_OSBIrregularity.jpg)

17:50:16 Von Patrick - waag an Alle: lets add CAM to our TLA list Marius Araújo:[][][] Pablo Fab Lab Leon:[]

17:50:33 Von Ricardo Marques an Alle: PSA on FreeCAD CAM, by default it has canned drill cycles turned on with the Grbl post-processor. It's not supported by a lot of cheaper controllers. You need to add the "--translate\_drill" parameter or edit the post-processor file.

17:51:20 Von Ricardo Marques an Alle: Replying to "PSA on FreeCAD CAM, by default it has canned drill...": I would recommend editing the file because you can also edit the pre and postamble. this is the location of the post processors

<https://github.com/FreeCAD/FreeCAD/tree/main/src/Mod/CAM/Path/Post/scripts>

17:52:02 Von Svavar Konradsson - Fab Lab Isafjordur an Alle: Replying to "dogbone addin for Fusion <https://tapnair.github.io...>": Another one, from the Fab Lab network:

<https://fablab.ruc.dk/more-elegant-cnc-dogbones/amp/> Adrián - Fab Lab León:♥

17:57:12 Von Adrián - Fab Lab León an Alle: Search your emergency buttons: Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:♥

17:57:18 Von Adrián - Fab Lab León an Alle: {E0C3AF23-038B-4BC7-B523-64FD7EECD49F}.png Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:♥ Patrick - waag:☐

17:59:08 Von Adrián - Fab Lab León an Alle: Remember, this Saturday Global Open Time is back. At 10:00 AM Boston Time. More info: <https://chat.academany.org/fabacademy-2025/channels/global-open-time> Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:♥ Ricardo Marques, Marius Araújo:☐ Camila Luna - FabLab Cuenca ASQ:☐



# local class

# Recitation Meeting Chat - 03/10/25

## Quantum Mechanics Resources

- Veritasium recently uploaded a great clip about Quantum Mechanics:

<https://www.youtube.com/watch?v=qjZ1Ez28C-A>

## LEGO4QUANTUM Slides

- Here are the slides I just showed about LEGO4QUANTUM:

<https://docs.google.com/presentation/d/1ogMIYl4JcPdXMHizd7TB4vUHcu87AOjis5L2rKOEj3l/edit?usp=sharing>

- LEGO4Quantum: <https://www.goodwall.io/tags/Lego4Quantum>

## Holographic Setup

- Very simple Holographic setup:

<https://openuc2.github.io/docs/Toolboxes/DiscoveryInterferometer/InlineHolography>

## Additional Resources

- Post-quantum cryptography: [https://en.wikipedia.org/wiki/Post-quantum\\_cryptography](https://en.wikipedia.org/wiki/Post-quantum_cryptography)
- Fab Academy: <https://fabacademy.org/2025/recitation/materials/index.html>
- Materiom: <https://www.materiom.org/>

# OpenUC2 Resources

- For more information from the UC2 team, visit: <https://openuc2.com/>
- OpenUC2 wiki: <https://openuc2.github.io/>

## Advanced Topics

- More sophisticated Holographic setup:  
<https://openuc2.github.io/docs/Toolboxes/DiscoveryInterferometer/MachZenderInterferometer>
- Core One Prusa: <https://hackaday.com/2024/11/20/with-core-one-prusas-open-source-hardware-dream-quietly-dies/>
- Holography: <https://en.wikipedia.org/wiki/Holography>

# Chat global class

13:33:58 Von ferdi an Alle: Can it cut holes and outline?

13:34:03 Von ndcoster an Alle: I got mine but wasn't brave enough to test it yet.

13:34:25 Von ferdi an Alle: Awesome!

13:35:50 Von saheen palayi an Alle: <https://git.fablabkerala.in/midlaj/gerber2png/-/wikis/home>

here is the wiki

Svavar Konradsson Fab Lab Isafjordur, henk, Krisjanis Rijnieks:[]

Pablo Fab Lab Leon:[]

Adrián - Fab Lab León, Lars Mattern - HRW Fablab, Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:[]

13:37:32 Von ndcoster an Alle: design with eagle without Eagle saheen palayi:[]

13:37:46 Von saheen palayi an Alle: Replying to "<https://git.fablabkerala.in/midlaj/gerber2png/-/wi...>": wiki also linked at the corner <https://gerber2png.fablabkerala.in/>

13:46:03 Von henk an Alle: @julian we can try it first on out gitlab server...

13:46:39 Von Jul an Alle: Replying to "@julian we can try it first on out gitlab server.....": ok :)

13:47:17 Von saheen palayi an Alle: just mentioning. Our X tools F1 Ultra arrived at the lab last week this runs with PNG file, 4 passes, 1 hour !!!!!? ( still figuring out to work) the result:- Adrián - Fab Lab León:[] Rico Kanthatham:[]

13:47:26 Von saheen palayi an Alle: 20250312\_181133.jpg Nuria Robles | LEON:[] Adrián - Fab Lab León, Pablo Fab Lab Leon, Ricardo Marques, Svavar Konradsson Fab Lab Isafjordur:♥ henk:♥[]

13:47:43 Von Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab an Alle: <https://inventory.fabcloud.io/?purpose=Output%20Devices>

13:51:35 Von henk an Alle: Replying to "20250312\_181133.jpg": was it FR1 copperclad?

13:51:44 Von Claire - Lake Mac Libraries Fab Lab an Alle: I figured out how to export SVG from kicad 9 Marius Araújo:[]

13:52:35 Von Adrián - Fab Lab León an Alle: Replying to "I figured out how to export SVG from kicad 9": You need to export as Gerber and them use this: <https://git.fablabkerala.in/midlaj/gerber2png/-/wikis/home>

13:53:48 Von Fab Lab Barcelona an Alle: How?

13:53:17 Von Claire - Lake Mac Libraries Fab Lab an Alle: Replying to "I figured out how to export SVG from kicad 9": {C690B464-D66D-4133-B2C1-7DA2BEFE3D8B}.png

13:53:22 Von Marius Araújo an Alle: Replying to "I figured out how to export SVG from kicad 9": Great!!

13:53:30 Von Claire - Lake Mac Libraries Fab Lab an Alle: Replying to "I figured out how to export SVG from kicad 9": Screenshot 2025-03-12 235210.png

13:53:33 Von henk an Alle: Replying to "I figured out how to export SVG from kicad 9": that produces a not functioning svg

13:53:36 Von Adrián - Fab Lab León an Alle: Replying to "I figured out how to export SVG from kicad 9": But you need to check the resolution

13:53:56 Von Marius Araújo an Alle: Replying to "I figured out how to export SVG from kicad 9": Oh :/

13:55:00 Von henk an Alle: Replying to "I figured out how to export SVG from kicad 9": resolution is not workable Miriam:☹☹

13:55:17 Von Andri Sæmundsson - Fab Lab Reykjavik an Alle: You can also in pcb editor do File - Fabrication Output - Gerber and change format to SVG Marius Araújo, Pablo Fab Lab Leon, Adrián - Fab Lab León:☹☹

13:56:44 Von Aalto Fablab an Alle: or gerber to flatcam or coppercam Ricardo Marques:☹☹

13:57:21 Von Aalto Fablab an Alle: hisar lab has a new machine that has software that understands gerber well

13:57:32 Von Ricardo Marques an Alle: if it's a sizing issue it may be easier to add a module to mods to deal with it? vectors are vectors

13:57:35 Von Adrián - Fab Lab León an Alle: Replying to "hisar lab has a new machine that has software that...": And with mods?

13:57:42 Von saheen palayi an Alle: some issues :- mods converting the svg again to png and detecting edges . so its better we load png directly ? noticed the browser stuck if we load bigger PCB svg in to mods

13:57:47 Von Aalto Fablab an Alle: Replying to "hisar lab has a new machine that has software that...": nope Adrián - Fab Lab León:☹☹

13:58:09 Von Aalto Fablab an Alle: Replying to "hisar lab has a new machine that has software that...": but wasn't there a gerber to image module in mods?

13:58:32 Von Shintaro Ito : Node japan kannai an Alle: It's the beginning of a good time! I'm a little glad it's daylight savings time.☺ (It's currently 10pm in Japan.) Adrián - Fab Lab León, Marius Araújo, Tshering Wangzom JNWSFL bhutan, Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:♥ Miriam, Hiroe Takeda:☺

13:59:42 Von Adrián - Fab Lab León an Alle: Replying to "some issues :- mods converting the svg again to pn...": With SVG, you had to open it in Inkscape and change the format. I use GIMP, convert the SVG to PNG, and set the resolution to 1000 DPI.

13:59:46 Von Aalto Fablab an Alle: Replying to "hisar lab has a new machine that has software that...": cant find. perhaps something to go on todo list

14:00:43 Von Adrián - Fab Lab León an Alle: Replying to "hisar lab has a new machine that has software that...": Yeah, is only to image to gerber

14:01:09 Von Aalto Fablab an Alle: I actually wonder if anybody looked at kicad-cli possibilities in terms of exporting svg

14:01:19 Von Claire - Lake Mac Libraries Fab Lab an Alle: Converting to 1000ppi resolution png, it looks like it comes out fine in mods

14:01:31 Von Tshering Wangzom JNWSFL bhutan an Alle: Replying to "some issues :- mods converting the svg again to pn...": I have been using svg that i export from kicad and has been working since last month. But i faced problem when i use plot to get svg. Is the issue recent ?

14:01:44 Von Aalto Fablab an Alle: if the cli side has it, one could produce an addon

14:01:50 Von Ricardo Marques an Alle: Replying to "some issues :- mods converting the svg again to pn...": something changed with v9

14:02:12 Von Adrián - Fab Lab León an Alle: Replying to "some issues :- mods converting the svg again to pn...": KiCAD 7 and 8 Works, not in 9 Tshering Wangzom JNWSFL bhutan:☺

14:02:41 Von saheen palayi an Alle: Replying to "some issues :- mods converting the svg again to pn...": Yea we used to do this , this is also the one of the reason to make the one click solution to get png (gerber2Png) Adrián - Fab Lab León:☺ Tshering Wangzom JNWSFL bhutan:☺

14:02:46 Von Adrián - Fab Lab León an Alle: Replying to "Converting to 1000ppi resolution png, it looks lik...": But with GIMP?

14:03:18 Von Claire - Lake Mac Libraries Fab Lab an Alle: Replying to "Converting to 1000ppi resolution png, it looks lik...": Illustrator Adrián - Fab Lab León:☺

14:03:43 Von Charlotte Latin an Alle: Neil our student will be here in 5 min

14:04:05 Von Charlotte Latin an Alle: Latins will be here in 5 min

14:04:28 Von Charlotte Latin an Alle: ok

14:04:40 Von Rico Kanthatham an Alle: Go Abin!!! saheen palayi:[]

14:05:20 Von Claire - Lake Mac Libraries Fab Lab an Alle: Replying to "Converting to 1000ppi resolution png, it looks lik...": I'll test in inkscape

14:05:35 Von saheen palayi an Alle: Replying to "Converting to 1000ppi resolution png, it looks lik...": it works with photopea

14:08:29 Von Aalto Fablab an Alle: Nice power extension Lars Mattern - HRW Fablab, Adrián - Fab Lab León, Dorji Gyeltshen, JNEC bhutan, ihlin, saheen palayi, Dylan:[] Saverio Shanghai:[]

14:08:48 Von Aalto Fablab an Alle: I want one Adrián - Fab Lab León, Pablo Fab Lab Leon:[]

14:09:18 Von Aalto Fablab an Alle: I mean the chair is great, of course, don't get me wrong! Adrián - Fab Lab León:[] Patrick-Waag:[]

14:09:30 Von Aalto Fablab an Alle: I want one of the chairs too

14:10:56 Von Adrián - Fab Lab León an Alle: Replying to "I want one of the chairs too": The chair and the power extensión hehehe saheen palayi:[]

14:13:06 Von Evert Stefán Jensson an Alle: Replying to "I want one of the chairs too": combined it will be electrical chair Patrick-Waag:[] Pablo Fab Lab Leon, Adrián - Fab Lab León, Lars Mattern - HRW Fablab, Mkhitar Evoyan:[]

14:14:31 Von saheen palayi an Alle: Replying to "I want one of the chairs too": @Adrián - Fab Lab León we borrowed from IT department [], it was used for server racks

14:14:39 Von Ricardo Marques an Alle: not documenting as you go is both a good way to having to do things twice but also na amazing way to become a returning student next year :p Pérez De La Mora Daniel Alejandro, saheen palayi, Rico Kanthatham, Svavar Konradsson Fab Lab Isafjordur, Jani Ylioja:[]

14:15:49 Von Rico Kanthatham an Alle: Replying to "not documenting as you go is both a good way to ha...": Ask Ricardo how he knows...[] Adrián - Fab Lab León, Marius Araújo:[]

14:16:13 Von Ricardo Marques an Alle: Replying to "not documenting as you go is both a good way to ha...": hey I documented as I go, I only did things once... :D I just didn't put it online xD Patrick-Waag, Evert Stefán Jensson:[]

14:16:34 Von Claire - Lake Mac Libraries Fab Lab an Alle: Replying to "Converting to 1000ppi resolution png, it looks lik...": hmmm, when I try inkscape it doesn't work for png

14:16:51 Von Adrián - Fab Lab León an Alle: Replying to "not documenting as you go is both a good way to ha...": No comments [] Rico Kanthatham:[]

14:16:53 Von Rico Kanthatham an Alle: Replying to "not documenting as you go is both a good way to ha...": "if a tree in a forest falls, but there is no one around...does it make a sound?" Patrick-Waag, Claire - Lake Mac Libraries Fab Lab, Adrián - Fab Lab León:☐☐ Ricardo Marques, Patrick-Waag:☐☐

14:17:43 Von Miriam an Alle: Replying to "not documenting as you go is both a good way to ha...": 202503122217390000.jpg Ricardo Marques, Norella Coronell, Adrián - Fab Lab León, Svavar Konradsson Fab Lab Isafjordur, Forrest O.:♥ Patrick-Waag:☐☐

14:18:28 Von Adrián - Fab Lab León an Alle: Replying to "Converting to 1000ppi resolution png, it looks lik...": Try GIMP

14:20:02 Von Adrián - Fab Lab León an Alle: Nice job Elle!!

14:20:02 Von Pablo Fab Lab Leon an Alle: Super!

14:21:03 Von Marius Araújo an Alle: Replying to "Converting to 1000ppi resolution png, it looks lik...": Inkscape: open svg, edit what you need; file: export. Up the dpi, select format etc. works

14:24:13 Von Pablo Fab Lab Leon an Alle: sensing from one side to the other of a glass dont seems so trivial. Few sensros can sens through a glass.

14:24:33 Von Jani Ylioja an Alle: I've been wanting one of those magic mirrors for years! Adrián - Fab Lab León:♥

14:24:52 Von Svavar Konradsson Fab Lab Isafjordur an Alle: Go Ólöf! Ricardo Marques, Adrián - Fab Lab León, andri-fab lab reykjavik:☐☐

14:25:06 Von Rico Kanthatham an Alle: Replying to "I've been wanting one of those magic mirrors for y...": "mirror, mirror on the wall. who is the most..." Adrián - Fab Lab León, Patrick-Waag, Marius Araújo, Claire - Lake Mac Libraries Fab Lab:☐☐

14:25:18 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: You can do it Ólof


14:25:27 Von Justyn Woods an Alle: can you guys see me on camera. Im using my phone fir zoom rather than my kaptop

14:25:37 Von Evert Stefán Jensson an Alle: i have been there

14:25:56 Von Miriam an Alle: Replying to "I've been wanting one of those magic mirrors for y...": It's touch, so you can always swipe left Lars Mattern - HRW Fablab, Jani Ylioja, Ricardo Marques, Patrick-Waag, Claire - Lake Mac Libraries Fab Lab:☐☐ Adrián - Fab Lab León, Rico Kanthatham:☐☐

14:26:32 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Neskaupstaður and Ísafjörður are basically on the opposite from one another



14:26:33 Von Svavar Konradsson Fab Lab Isafjordur an Alle: Neskaupstaður is really nice and quiet; it's so interesting to see that all the lava layers in the mountains are slanted because of the Ice age glacier that weighed down the middle of Iceland Rico Kanthatham, Adrián - Fab Lab León, Þórarinn Bjartur Breiðfjörð Gunnarsson, Pablo Fab Lab Leon, Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab: 

14:26:35 Von Adrián - Fab Lab León an Alle: Replying to "can you guys see me on camera. Im using my phone f...": Yes but you need to swith on your camera


14:26:59 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: [www.fablab.is](http://www.fablab.is)

14:27:39 Von Adrián - Fab Lab León an Alle: Replying to "can you guys see me on camera. Im using my phone f...": Now yes



14:30:08 Von Adrián - Fab Lab León an Alle: Yeah Spiral Development!! Claire - Lake Mac Libraries Fab Lab, Rico Kanthatham, Jeremy Losaw:♥

14:30:18 Von Adrián - Fab Lab León an Alle: Replying to "Yeah Spiral Development!!": Rico's drwaing

14:30:22 Von Adrián - Fab Lab León an Alle: Replying to "Yeah Spiral Development!!": Drawing

14:31:13 Von Rico Kanthatham an Alle: Ok...definitely want one of these!! Rico Kanthatham, Patrick-Waag, Ricardo Marques, Claire - Lake Mac Libraries Fab Lab, Miriam: 

14:31:30 Von Adrián - Fab Lab León an Alle: Replying to "Neskaupstaður and Ísafjörður are basically on the ...": {A1381766-3404-4B17-B90C-78F71B7FA94A}.png


14:32:56 Von ferdi an Alle:  
<https://i.pinimg.com/originals/9d/fe/9f/9dfe9f603ae9df280fd2dbe21978fddc.png> Patrick-Waag:   
Patrick-Waag: 

14:33:12 Von Svavar Konradsson Fab Lab Isafjordur an Alle: I love the mini version of the whale final project

14:33:14 Von Rico Kanthatham an Alle: Replying to "Ok...definitely want one of these!!": Love it Olof!!! olof:♥

14:33:25 Von Saverio Shanghai an Alle: are those whale travel data open and accessible?

14:33:38 Von Saverio Shanghai an Alle: so cool

14:33:58 Von Rico Kanthatham an Alle: how about that mini skateboarder diorama project from a few years ago? olof: 

14:34:12 Von Adrián - Fab Lab León an Alle: Replying to "how about that mini skateboarder diorama project f...": <https://fabacademy.org/2021/labs/plusx/students/jonny->

timms/presentation.mp4 Rico Kanthatham, Svavar Konradsson Fab Lab Isafjordur:☐☐

14:34:13 Von Pablo Fab Lab Leon an Alle: Replying to "Ok...definitely want one of these!!": I bet 1\$ more...

14:34:21 Von Claire - Lake Mac Libraries Fab Lab an Alle: Replying to "Converting to 1000ppi resolution png, it looks lik...": I couldn't get GIMP to work, but could be because this is the first time I've used it ☐☐ Adrián - Fab Lab León:☐☐

14:34:52 Von Rico Kanthatham an Alle: Replying to "Ok...definitely want one of these!!": ...oooh. Big spender!

14:34:53 Von Adrián - Fab Lab León an Alle: Replying to "how about that mini skateboarder diorama project f...": Check this Project Olof <https://fabacademy.org/2021/labs/plusx/students/jonny-timms/finalproject.html> olof:♥

14:36:25 Von Miriam an Alle: If it is. Whale's journey then what about haru SAN's project?

14:37:21 Von Adrián - Fab Lab León an Alle: Replying to "If it is. Whale's journey then what about haru SAN...": Yes another one <https://fabacademy.org/2020/labs/kamakura/students/hideo-oguri/projects/final-project/>

14:37:30 Von Miriam an Alle: Replying to "If it is. Whale's journey then what about haru SAN...": 20250312223725.png

14:38:33 Von Claire - Lake Mac Libraries Fab Lab an Alle: Replying to "If it is. Whale's journey then what about haru SAN...": Or just go big and make a giant whale like Bartholomew ☐☐ <https://fabacademy.org/2023/labs/singapore/students/bartholomew-ting/final-project.html> olof:☐☐ Adrián - Fab Lab León:☐☐

14:41:05 Von olof an Alle: Yes, the whale's data is accessible through this website: <https://nammco.no/> Adrián - Fab Lab León, Lars Mattern - HRW Fablab:☐☐

14:41:23 Von olof an Alle: [https://fabacademy.org/2025/labs/isafjordur/students/olof-hannesdottir/filesFinalProject/Iceland\\_modeled.html](https://fabacademy.org/2025/labs/isafjordur/students/olof-hannesdottir/filesFinalProject/Iceland_modeled.html) Svavar Konradsson Fab Lab Isafjordur, Adrián - Fab Lab León:☐☐

14:42:46 Von Aalto Fablab an Alle: let me know if you want to have recitation. they are from the same school I studied at. I studied together with the guy who made the visual effects Adrián - Fab Lab León, Marius Araújo, Lars Mattern - HRW Fablab:♥ Svavar Konradsson Fab Lab Isafjordur, Patrick-Waag:☐☐ maxime:☐☐ Ricardo Marques:☐☐

14:43:00 Von Rico Kanthatham an Alle: blender...woo hoo! Claire - Lake Mac Libraries Fab Lab:☐☐ Adrián - Fab Lab León:☐☐

14:43:53 Von Casimir Maksymowicz an Alle: You could try something with elastics

14:44:00 Von Rico Kanthatham an Alle: frisbee launcher rom Charlotte last year?

14:44:21 Von Patrick-Waag an Alle: air pressure ?

14:44:28 Von Svavar Konradsson Fab Lab Isafjordur an Alle: Easter egg launcher from Waag:  
<https://fabacademy.org/2023/labs/waag/machine-design/> Adrián - Fab Lab León:♥

14:44:32 Von henk an Alle: <https://fabacademy.org/2023/labs/waag/images/de-legbatterij.mp4>

14:44:40 Von Adrián - Fab Lab León an Alle: Air plane launcher  
<https://fabacademy.org/2023/labs/egypt/students/mohamed-tarek/final-project.html>

14:44:52 Von Rico Kanthatham an Alle: "CAT"-apult. ☐☐ Enterprise fablab:☐☐ Aalto Fablab, Patrick-Waag, Pablo Fab Lab Leon, Ricardo Marques, Claire - Lake Mac Libraries Fab Lab, Daniel Osika, Lars Mattern - HRW Fablab, Jorge Valerio - ESAN, Adrián - Fab Lab León:☐☐

14:44:56 Von Ricardo Marques an Alle: spinning wheels like the baseball and tennis ball launchers may be the most manageable

14:45:21 Von Charlotte Latin an Alle: we have launc hed footballs, flying disks, and tennis balls using spinnng wheels

14:45:23 Von Amr Yasser an Alle: Jakelaser web shooter it would be great for this project

14:45:30 Von Rico Kanthatham an Alle: Replying to ""CAT"-apult. ☐☐": the final project is not done...but the name is locked down! Adrián - Fab Lab León, Patrick-Waag, Claire - Lake Mac Libraries Fab Lab, Lars Mattern - HRW Fablab:☐☐

14:45:57 Von Noha | Fab Lab Egypt an Alle: Paper plane launcher  
<https://fabacademy.org/2023/labs/egypt/students/mohamed-tarek/assignments/week18.html>

14:45:58 Von Adrián - Fab Lab León an Alle:  
<https://fabacademy.org/2023/labs/egypt/students/mohamed-tarek/final-project.html> Rico Kanthatham:☐☐

14:46:12 Von Charlotte Latin an Alle: charlotte latin collin Ricardo Marques:☐☐

14:46:33 Von Jason Goodman (Wheaton College) an Alle: My idea (which I haven't told Gillian about yet) is to use the windup reel to tension a spring-loaded throwing arm. So the retraction and cocking system are the same motor. Marius Araújo, Miriam, Gillian:☐☐☐

14:46:35 Von Charlotte Latin an Alle: collin kanofsky launch flying disks

14:46:54 Von Terence Fagan an Alle: <https://fabacademy.org/2024/labs/charlotte/students/collin-kanofsky/Final%20Project/>

14:47:17 Von Charlotte Latin an Alle: thanks fagan Terence Fagan:☐☐

14:48:21 Von Jason Goodman (Wheaton College) an Alle: It's not a dogmatic assignment, it's a catmatic assignment! Charlotte Latin, Rico Kanthatham, Florimond Chu (FabLab SP), Claire - Lake Mac Libraries Fab Lab, Adrián - Fab Lab León: Patrick-Waag:

14:49:11 Von Rico Kanthatham an Alle: Replying to "It's not a dogmatic assignment, it's a catmatic as...": anyone doing an automatic dog feeder? "Dog-matic" is open for purchase!

14:52:19 Von Dylan an Alle: Screenshot2025\_03\_12\_145215.jpg Julian Silva, Oscar: Marius Araújo: Patrick-Waag, Mkhitar Evoyan, Sam, Pablo Fab Lab Leon, Claire - Lake Mac Libraries Fab Lab, Doaa El-Bess, Ricardo Marques:

14:53:13 Von Jason Goodman (Wheaton College) an Alle: Holding at the corners makes the wood bow too, which makes depth-of-cut difficult. You can see it bowing in the pic.

14:56:43 Von Omar Baalbaki(SK 7) an Alle: Why not use a raspberry pi or a Jetson?

14:58:13 Von Steven an Alle: Yes, Waag Amsterdam. Rutger.

14:58:14 Von Sam an Alle: Henk is on another phone call. He will be back soon

14:58:17 Von Adrián - Fab Lab León an Alle: <https://fabacademy.org/2021/labs/waag/MM1/>

14:59:00 Von Steven an Alle: <https://fabacademy.org/2019/labs/waag/students/rutger-oomkes/presentation.mp4>

14:59:24 Von Adrián - Fab Lab León an Alle: This lamp from the Waag [https://fabacademy.org/2019/labs/waag/students/rutger-oomkes/projects/final-project/ Jason Goodman \(he, him\):](https://fabacademy.org/2019/labs/waag/students/rutger-oomkes/projects/final-project/Jason%20Goodman%20(he,%20him):)♥

14:59:46 Von Saverio Shanghai an Alle: fablab beijing 2019 or 2018

15:01:01 Von Neil an Alle: [http://archive.fabacademy.org/archives/2017/fablabbeijing/students/372/final\\_project.html#step10](http://archive.fabacademy.org/archives/2017/fablabbeijing/students/372/final_project.html#step10)

15:02:16 Von ferdi an Alle: This is <https://www.vigibot.com/> but I can't find the Video from agrilab.

15:03:04 Von Aalto Fablab an Alle: it do laundry? Daniel Osika: Marius Araújo: Patrick-Waag, Adrián - Fab Lab León, Claire - Lake Mac Libraries Fab Lab:

15:03:17 Von Aalto Fablab an Alle: or dishes? Claire - Lake Mac Libraries Fab Lab, Adrián - Fab Lab León:

15:03:54 Von Lars Mattern - HRW Fablab an Alle: It brings Coffee to the bed in the morning ?

15:04:01 Von Adrián - Fab Lab León an Alle: Replying to "or dishes?": the next versión of ChatGPT hahaha

15:04:07 Von Aalto Fablab an Alle: Replying to "It brings Coffee to the bed in the morning ?": hopefully. sometimes Adrián - Fab Lab León, Lars Mattern - HRW Fablab, Oscar:[]

15:04:31 Von henk an Alle: <https://fabacademy.org/2024/labs/waag/RUPEV/rupev.mp4> REAL URBAN PIGEON EYE VIEW Claire - Lake Mac Libraries Fab Lab:♥ Adrián - Fab Lab León, Pablo Fab Lab Leon, Patrick-Waag:[]

15:04:38 Von Aalto Fablab an Alle: Replying to "or dishes?": yeah it should be their true vision indeed hehe Adrián - Fab Lab León:[]

15:04:52 Von Claire - Lake Mac Libraries Fab Lab an Alle: Replying to "or dishes?": Be careful the machines will take over []

15:05:35 Von Ricardo Marques an Alle: yes it was

15:05:39 Von Omar Baalbaki(SK 7) an Alle: []

15:05:46 Von Jason Goodman (Wheaton College) an Alle: Replying to "This lamp from the Waag <https://fabacademy.org/201...>": I just love the personality and expressiveness of its movements. A beautiful project, with some amazing physical animation.

15:05:56 Von Claire - Lake Mac Libraries Fab Lab an Alle: Jaryd made an omni wheel robot last year <https://fabacademy.org/2024/labs/lakemac/students/jaryd-giesen/final-project/>

15:06:15 Von Aalto Fablab an Alle: Replying to "or dishes?": i am quite sure they wont

15:06:36 Von Ricardo Marques an Alle: Replying to "or dishes?": they can take over doing the dishes for now Claire - Lake Mac Libraries Fab Lab, Aalto Fablab:[]

15:06:47 Von Adrián - Fab Lab León an Alle: From Kerala

15:06:54 Von Aalto Fablab an Alle: Replying to "or dishes?": yeah that. always!

15:07:39 Von saheen palayi an Alle: [https://akash-edamana-2f0181.fabcloud.io/Template/Week\\_7.html](https://akash-edamana-2f0181.fabcloud.io/Template/Week_7.html)

15:07:41 Von Ricardo Marques an Alle: that was the default, gitlab changed something. it creates unique domains. Julian had to make a script to fix everything. this repo was likely generated after that

15:07:43 Von henk an Alle: ticked the wrong box in pages

15:07:58 Von saheen palayi an Alle: no he didn't broke ,

15:08:11 Von Ricardo Marques an Alle: it's a gitlab setting that's turned on by default

15:08:21 Von Aalto Fablab an Alle: Replying to "no he didn't broke ,": maybe it is his real name indeed saheen palayi:[] Ricardo Marques:[]

15:08:35 Von Aalto Fablab an Alle: Replying to "no he didn't broke ,": 2f0181

15:08:37 Von Jason Goodman (Wheaton College) an Alle: Replying to "https://fabacademy.org/2024/labs/waag/RUPEV/rupev...": Birds aren't real!  
[https://en.wikipedia.org/wiki/Birds\\_Aren%27t\\_Real](https://en.wikipedia.org/wiki/Birds_Aren%27t_Real) Marius Araújo, Claire - Lake Mac Libraries Fab Lab:[]

15:08:56 Von Aalto Fablab an Alle: Replying to "no he didn't broke ,": I would not mind to have a name like that

15:09:20 Von Aalto Fablab an Alle: Replying to "no he didn't broke ,": hey two-f-o-one-eight-one

15:09:25 Von Aalto Fablab an Alle: Replying to "no he didn't broke ,": how do you do

15:09:38 Von Ricardo Marques an Alle: <https://docs.gitlab.com/user/project/pages/#unique-domains> this is the documentation related to the change that Julian sent me a while back. Marius Araújo, Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:[][]

15:10:52 Von Patrick-Waag an Alle: Replying to "https://docs.gitlab.com/user/project/pages/#unique...": should we tag Julian in mattermost ?

15:12:20 Von Ricardo Marques an Alle: Replying to "no he didn't broke ,": Just like Elon's kid

15:12:48 Von Aalto Fablab an Alle: Replying to "no he didn't broke ,": ah, I thought that I don't like him anymore. there you go Ricardo Marques:[]

15:13:13 Von Aalto Fablab an Alle: Replying to "no he didn't broke ,": elon, adopt me

15:13:46 Von Jason Goodman (Wheaton College) an Alle: That's a lovely design! I love the way it opens.

15:13:53 Von Miriam an Alle: Cool looking design

15:15:24 Von Neil an Alle: <https://nq.cba.mit.edu/quentinbolsee/open-frame-scan>

15:15:33 Von saheen palayi an Alle: Replying to "no he didn't broke ,": He created his account way before ( mostly before everyone) that's why his link came like this , this happens last year as well with some other students . dont know why @julian

15:16:16 Von Ricardo Marques an Alle: Replying to "no he didn't broke ,":  
<https://docs.gitlab.com/user/project/pages/#unique-domains> Check this out, I talked to Julian about this a while back because lab pages were also coming up this way

15:17:00 Von Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab an Alle:  
<https://gitlab.cba.mit.edu/quentinbolsee/aruco-frame>

15:20:24 Von Pablo Fab Lab Leon an Alle: Replying to  
"https://gitlab.cba.mit.edu/quentinbolsee/aruco-fra...": Thanks! i have been looking for this link. ☐  
Adrián - Fab Lab León:☐

15:20:40 Von Adrián - Fab Lab León an Alle: Woww Johannes!! Rico Kanthatham, Fab Lab Akureyri:  
☐ Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab, Miriam, andri-fab lab reykjavik:☐

15:20:42 Von saheen palayi an Alle: Replying to "no he didn't broke ,": ha thanks @Ricardo  
Marques will give it a try

15:20:49 Von Shintaro Ito : Node japan kannai an Alle: It so good Fab Lab Akureyri:♥

15:20:51 Von Pablo Fab Lab Leon an Alle: WOW! Fab Lab Akureyri:♥

15:20:54 Von Jeremy Losaw an Alle: mega Fab Lab Akureyri:♥

15:21:07 Von Shintaro Ito : Node japan kannai an Alle: It is gread product Fab Lab Akureyri:♥

15:21:06 Von Svavar Konradsson Fab Lab Isafjordur an Alle: I think we will make an extra chair to  
have at the lab! Fab Lab Akureyri, Marius Araújo:♥

15:21:08 Von Fab Lab Akureyri an Alle: Brilliant stuff! Fab Lab Akureyri:♥

15:21:19 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Looks good, feels good and is stable.  
+ no screws

15:21:21 Von Cristian - Fab Lab iFurniture an Alle: Wow!!

15:21:40 Von Fab Lab Akureyri an Alle: Pablo, he's taking orders right now! 6 or 12 pcs ? Adrián -  
Fab Lab León, Marius Araújo, Patrick-Waag:☐

15:22:02 Von Pablo Fab Lab Leon an Alle: Replying to "Pablo, he's taking orders right now! 6 or 12  
pcs ?": lets start with 3, i have to earn for final projects... Fab Lab Akureyri:♥

15:22:42 Von Adrián - Fab Lab León an Alle: Go Koharu!!!! Kazutoshi Tsuda / Kitakagaya, Osaka,  
Hiroe Takeda:☐

15:22:46 Von Jani Ylioja an Alle: Watch out for IP with sponge bob

15:23:10 Von Jeremy Losaw an Alle: yaaaas!

15:23:50 Von Pablo Fab Lab Leon an Alle: look really stiff!!!

15:23:52 Von Patrick-Waag an Alle: wow

15:23:53 Von Rico Kanthatham an Alle: Buy Koharu's project! Finance her university education!  
Adrián - Fab Lab León, Hiroe Takeda, Claire - Lake Mac Libraries Fab Lab, Koharu Takeda:♥ Pablo  
Fab Lab Leon, Adrián - Fab Lab León:☐☐

15:23:58 Von Norella Coronell an Alle: Replying to "202503122321030000.gif": We need an  
updated version of this with real offer for students products Adrián - Fab Lab León:☐☐

15:24:05 Von Shintaro Ito : Node japan kannai an Alle: The ability to ping pong is attractive! I  
hadn't thought of that!

15:24:10 Von Svavar Konradsson Fab Lab Isafjordur an Alle: Really professional looking table

15:24:18 Von Kazutoshi Tsuda / Kitakagaya, Osaka an Alle: ☐☐

15:24:45 Von Miriam an Alle: Replying to "202503122321030000.gif": We were thinking of making  
Fab-bitcoin type to use as like a credit to buy projects Pablo Fab Lab Leon:☐☐ Norella Coronell,  
Adrián - Fab Lab León:☐☐

15:25:13 Von Miriam an Alle: Replying to "202503122321030000.gif": Way to mine would be  
visiting different fab academy websites

15:25:18 Von Svavar Konradsson Fab Lab Isafjordur an Alle: That foosball table was a weekly  
project?!? Fab Lab Akureyri, Elen Grigoryan, Adrián - Fab Lab León:♥ Jani Ylioja:☐☐ Geovanny Fortín,  
Florimond Chu (FabLab SP):☐☐ Ricardo Marques:☐☐ Pablo Fab Lab Leon:☐☐

15:25:40 Von Miriam an Alle: Replying to "202503122321030000.gif": And/ or answering quizzes

15:25:58 Von Norella Coronell an Alle: Replying to "202503122321030000.gif": Or visiting students  
website - love the idea

15:26:39 Von Miriam an Alle: Replying to "202503122321030000.gif": Maybe Julian can help us  
with that.

15:26:54 Von Shintaro Ito : Node japan kannai an Alle: It's like he's alive!

15:27:03 Von Pablo Fab Lab Leon an Alle: The beggining of atropod alien XD

15:27:45 Von Adrián - Fab Lab León an Alle: Awesome Shoko!! Shoko KUDOMI:☐☐

15:27:47 Von saheen palayi an Alle: shoko ☐☐ shoking with blender Rico Kanthatham:☐☐ Shoko  
KUDOMI:☐☐

15:27:55 Von Mkhitar Evoyan an Alle: Replying to "That foosball table was a weekly project?!?": It  
was daily project , i spend more than 60 Hours :D Ricardo Marques, Adrián - Fab Lab León:☐☐

15:27:56 Von Shintaro Ito : Node japan kannai an Alle: Replying to "That foosball table was a  
weekly project?!?": The desk is really practical and functional. Best of all, wood is expensive to buy,



that's where FAB comes in!

15:28:12 Von Miriam an Alle: Shoko point of 15 Shoko KUDOMI:[]

15:28:14 Von Hiroe Takeda an Alle: so many work! amazing documents!! Shoko KUDOMI:[]

15:28:14 Von Enterprise fablab an Alle: nie work Shoko KUDOMI:[]

15:28:22 Von Norella Coronell an Alle: Replying to "202503122321030000.gif": It can be a cool Workshop to develop during FAB25 to apply for next cycle, with a gaming component Miriam, Adrián - Fab Lab León:♥

15:29:03 Von Miriam an Alle: Replying to "202503122321030000.gif": Ooh~

15:29:19 Von Pablo Fab Lab Leon an Alle: Replying to "202503122321030000.gif": Add me to it XD

15:29:28 Von Forrest O. an Alle: Aalto mention! [][] Enterprise fablab:♥

15:29:31 Von Kae Nagano an Alle: Nice work! Shoko Shoko KUDOMI:[]

15:29:56 Von Miriam an Alle: Replying to "202503122321030000.gif": Pablo will make the quizzes like in Global Open Time

15:30:32 Von Miriam an Alle: Replying to "202503122321030000.gif": Also the dude that will buy everything

15:30:45 Von Norella Coronell an Alle: Replying to "202503122321030000.gif": @Pablo Fab Lab Leon you are the lead and inspiration for this project

15:31:16 Von henk an Alle: Replying to "202503122321030000.gif": bitcion [] It's so 2000! Adrián - Fab Lab León:[]

15:31:34 Von Miriam an Alle: Replying to "202503122321030000.gif": [] sorry...

15:31:46 Von Pablo Fab Lab Leon an Alle: Replying to "202503122321030000.gif": Dont leave me alone! Ok, i can cordinate it. Miriam i need you XD Norella Coronell, Miriam:[]

15:31:49 Von Norella Coronell an Alle: Replying to "202503122321030000.gif": Any better suggestions @henk ?

15:32:10 Von henk an Alle: Replying to "202503122321030000.gif": would say anything better than bitcolin

15:32:43 Von Svavar Konradsson Fab Lab Isafjordur an Alle: Really nice result Magnús! Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:[]

15:32:52 Von Pablo Fab Lab Leon an Alle: Replying to "202503122321030000.gif": not bitcoin, but our own decentralized recognition coin.

15:33:04 Von Jeremy Losaw an Alle: bravo

15:33:11 Von Garrett Nelson an Alle: Yes, those are amazing projects!

15:33:15 Von saheen palayi an Alle: ☐☐

15:33:22 Von Pablo Fab Lab Leon an Alle: Great week!!!!

# Post Prozessor

Hier ist der zu verwendene Post Prozessor für die WK2516 F von CNC Multitool für Fusion.