

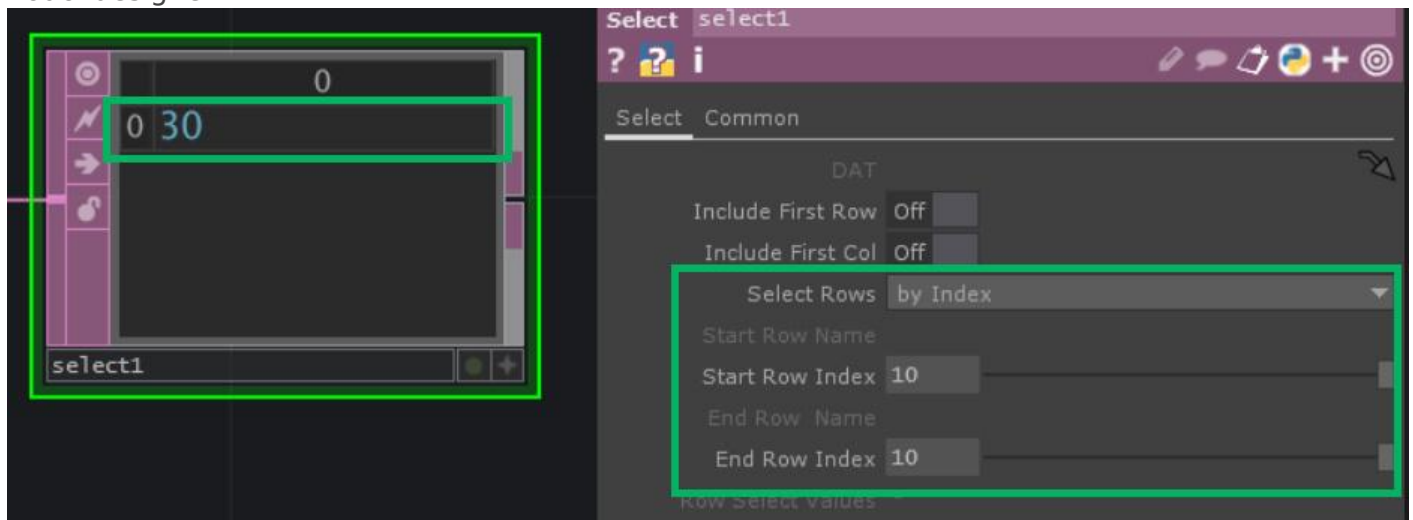
# Week 15: System Integration

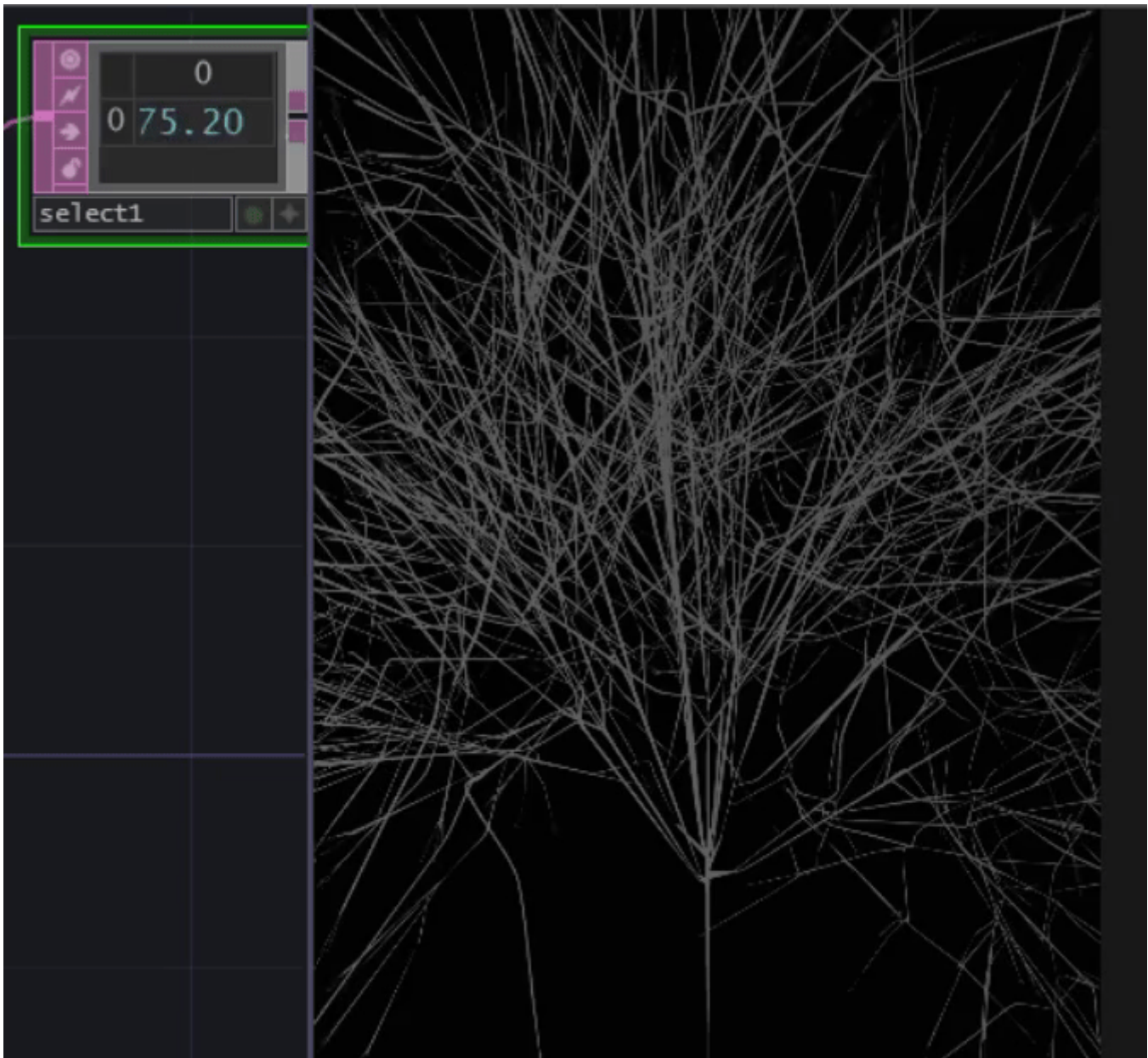
- [regional meeting](#)
- [global class](#)

# regional meeting

## Irja Linnerud

Touchdesigner

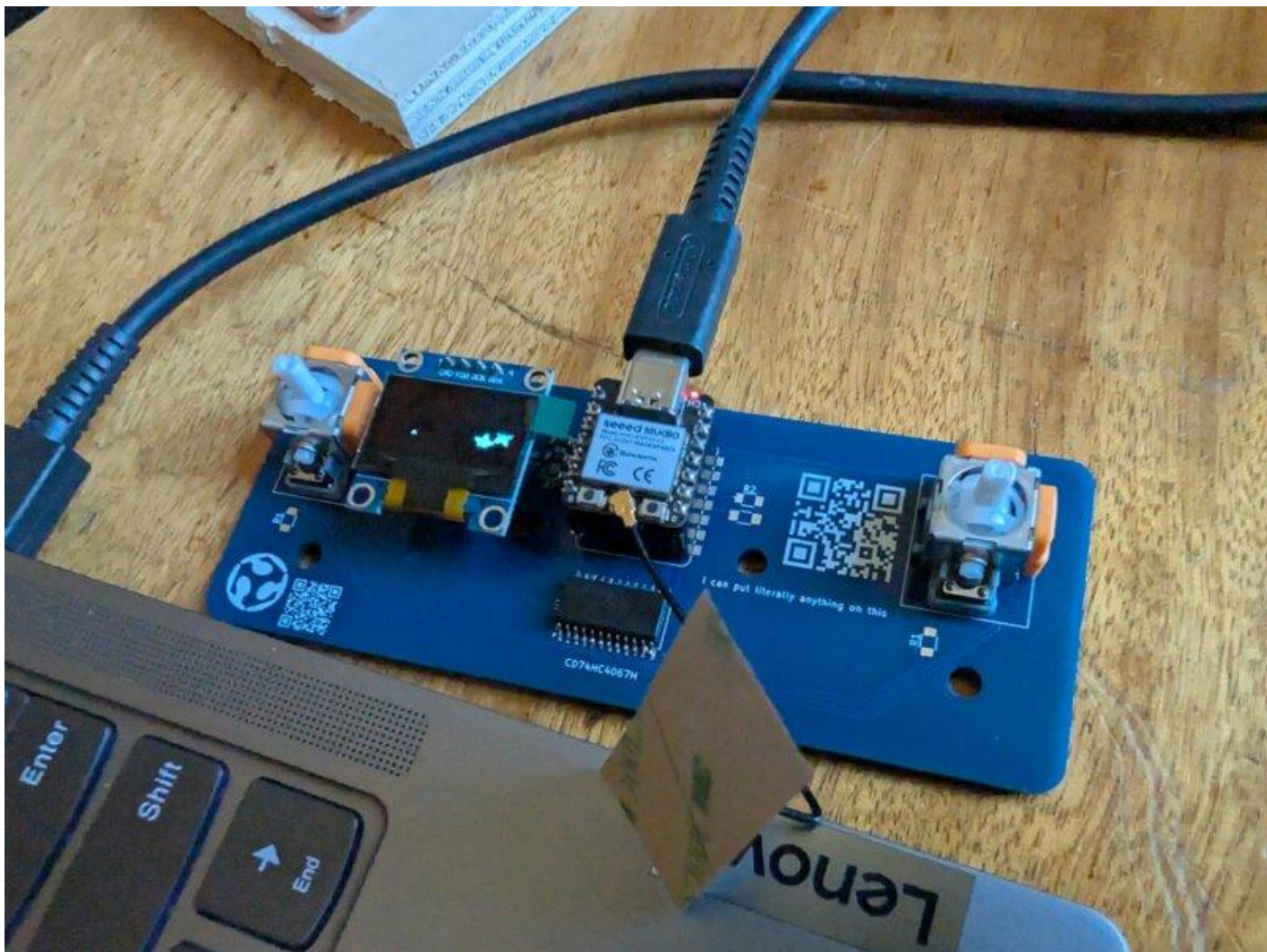




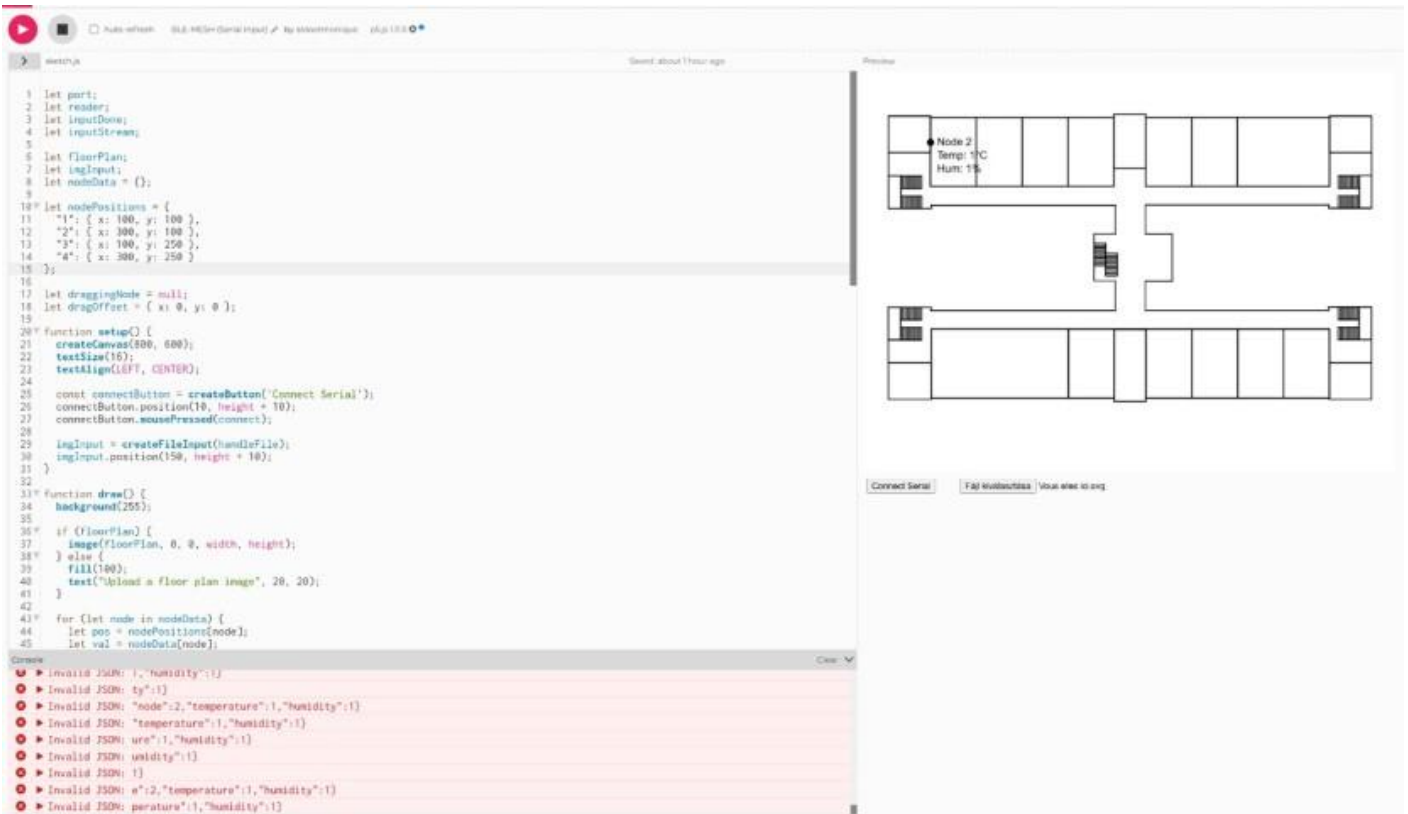
Dylan Heneck



Sam



Patrick



# Forrest Oliphant



# Yryszhan Sansyzbay



# Mkhitar Evoyan



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# chat

13:07:11 Von Krisjanis Rijnieks an Alle: in touch designer

13:07:18 Von Krisjanis Rijnieks an Alle: python

13:07:30 Von Krisjanis Rijnieks an Alle: you can make custom modules

13:07:37 Von Krisjanis Rijnieks an Alle: similar as in mods

13:08:05 Von Krisjanis Rijnieks an Alle: node-based programming paradigm

13:23:03 Von Krisjanis Rijnieks an Alle: Here is a part

<https://www.digikey.fi/en/products/detail/microchip-technology/24AA32AT-I-SN/443516>

13:23:12 Von Krisjanis Rijnieks an Alle: 8byte EEPROM

13:23:17 Von Krisjanis Rijnieks an Alle: SOIC-8

13:23:31 Von Krisjanis Rijnieks an Alle: good for storing configuration on devices even when powered off

13:23:47 Von Krisjanis Rijnieks an Alle: should be in our inventory

13:24:51 Von Krisjanis Rijnieks an Alle: I2C communication!!!

13:29:51 Von Krisjanis Rijnieks an Alle: i can see this in audiovisual context, but then blender as game engine would work best for realtime action <https://armory3d.org/engine/>

13:31:17 Von Krisjanis Rijnieks an Alle: I think this is the official Blender Game Engine that started as a part of Blender, but now is standalone <https://upbge.org/#/>

13:31:21 Von jakob an Alle: Replying to "i can see this in audiovisual context, but then bl...": thanks. i did not know yet how to "deploy" what i did. packaging a project in form of some game might be the way...

13:34:37 Von Krisjanis Rijnieks an Alle: Should have cat branding

13:37:58 Von jakob an Alle: Replying to "i can see this in audiovisual context, but then bl...": but in the end you would need to interface the game engine with the outside world... in what respect

would it then more efficient than using NodeOSC?

13:41:17 Von Krisjanis Rijnieks an Alle: i wonder if radio will be reliable underwater

13:41:42 Von Krisjanis Rijnieks an Alle: <https://github.com/ggerganov/ggwave> check this Mkhitar Evoyan:☐☐

13:41:45 Von maxime an Alle: Replying to "i wonder if radio will be reliable underwater": The idea is to have an antenna at the surface

13:45:32 Von Krisjanis Rijnieks an Alle: by the way have you seen this?  
<https://ardupilot.org/sub/index.html>

# global class

## Sujith Mayakrishnan



[2025 NEUE CPU N150 Gmktec G3 Plus Intel N150 Mini PC China](#)

## Molemohi Kapari



## Evelyn Cuadrado



## Noor Suwaidan



Naoki Hayashi



## Magnús Pétursson

Your browser does not support the video tag. search: "Magic the gathering"  
[<https://magic.wizards.com/de>](<https://magic.wizards.com/de>)

## Maatla Alan Dintsi

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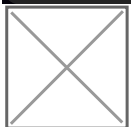
  
[](https://unikat-ilmenau.de/wiki/uploads/images/gallery/2025-05/image-1746627483917.png)

# Roshan Rai

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# Reginald Itiseng



# Namita Aravind



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# josue-byiringiro

from flask import Flask

<https://osh-autodoc.org/>

14:34:12 Von henk an Alle: when can we sign students up for final presentation?

14:36:20 Von Rico Kanthatham an Alle: ASAP

14:36:22 Von henk an Alle: soon....

14:36:51 Von Rico Kanthatham an Alle: having a firm deadline is a good motivator...and good for time mgmt

14:37:08 Von Adrián - Fab Lab León an Alle: Replying to "having a firm deadline is a good motivator...and g...": Soon as posible.

14:38:29 Von Rico Kanthatham an Alle: system integration = survive shake test Adrián - Fab Lab León:☐☐

14:39:55 Von henk an Alle: but do students can show final project without having doc of the other assignments done?

14:40:46 Von Adrián - Fab Lab León an Alle: Replying to "but do students can show final project without hav...": Only the video and the slide... and the finish later Noor Ahmed Raza Pirwani:☐☐

14:40:55 Von david.taylor an Alle: We have let them in the past

14:45:57 Von Tom Dubick an Alle: teddy warner Adrián - Fab Lab León:☐☐

14:46:31 Von Tom Dubick an Alle: thanks

14:47:26 Von Salman an Alle: Kerela startup mission Ted:☐☐

14:47:32 Von Pablo Fab Lab León an Alle: I can do ☐☐ <https://fabricotusideas.com/> Adrián - Fab Lab León:♥ Micka - FablabCuenca:☐☐ Ricardo Marques, Noor Ahmed Raza Pirwani:☐☐

14:48:03 Von Ricardo Marques an ferdi (Direktnachricht): hey, can you show me the incubator's website?

14:49:04 Von Pablo Fab Lab León an Alle: not heroic...at all

14:49:13 Von ferdi an Ricardo Marques (Direktnachricht): Hi Ricardo! This is our Website: <https://www.tu-ilmenau.de/forschung/service/ilmkubator-gruenderservice/page>

14:49:27 Von Noor Ahmed Raza Pirwani an Alle: Replying to "not heroic...at all": to start your own is heroic act

14:50:04 Von Pablo Fab Lab León an Alle: Replying to "not heroic...at all": you got the point ☐☐ Noor Ahmed Raza Pirwani:☐☐

14:50:08 Von Salman an Alle: <https://www.plusinnovation.com>

14:51:49 Von Milliam an Alle: Is it encouraged or required?

14:52:31 Von Pablo Fab Lab León an Alle: local instructors must "encourage" ☐☐ Adrián - Fab Lab León:☐☐

14:52:49 Von saheen palayi an Alle: what about multi layer PCB ?

14:53:02 Von saheen palayi an Alle: Replying to "what about multi layer PCB ?": more than 2

14:53:06 Von Salman an Alle: Inflatables

14:53:27 Von Salman an Alle: Welding and bending using laser

14:53:58 Von saheen palayi an Alle: Replying to "Welding and bending using laser": digital fabrication must include I think

14:54:15 Von Ricardo Marques an ferdi (Direktnachricht): good thing for in-browser translating xD Ha, how did you end up in Portugal?

14:54:31 Von david.taylor an Alle: What about turning pens on a lathe and laser engraving on them?

14:54:46 Von ferdi an Alle: One of my students will probably graduate this year, but he wants to go to the fabevent next year in Boston. What should he do?

14:55:07 Von henk an Alle: Replying to "what about multi layer PCB ?": but how is it different if you cannot produce them yourself?

14:55:16 Von david.taylor an Alle: Thank you

14:55:25 Von Tom Dubick an Alle: thanks

14:56:19 Von Salman an Alle: What if visa not granted? Noor Ahmed Raza Pirwani, Ricardo Marques:[]

14:56:20 Von Milliam an Alle: Replying to "what about multi layer PCB ?": I feel like this needs to be defined. Like if you make three single sided pcb and stick them together and the layers are integrated and connected to each other, is that enough?

14:56:33 Von Jani Ylioja an Alle: Just return the last weeks assignment after fab25 :D Elen Grigoryan:[]

14:57:09 Von Salman an Alle: Clear thanks

14:57:10 Von Rico Kanthatham an Alle: Luciana...could you repeat one more time? So if you graduate virtually this year...you cannot get a free ticket for boston?

14:57:24 Von saheen palayi an Alle: Replying to "what about multi layer PCB ?": @henk I see a possibility here , will give it a try Adrián - Fab Lab León, Pablo Fab Lab León:[]

14:57:35 Von Luciana Asinari an Alle: Whoever graduates in July gets free ticket in FAB25 Noor Ahmed Raza Pirwani, Pablo Fab Lab León, Adrián - Fab Lab León, Camila Luna:[]

14:57:55 Von Luciana Asinari an Alle: The ones graduating after July, get the chance to graduate in Boston Rico Kanthatham, Adrián - Fab Lab León, Sanjivani Fab Lab || ακαsh mhaís:[]

14:59:08 Von Milliam an Alle: Replying to "what about multi layer PCB ?": We look forward to seeing what Kochi makes for this assignment~[] saheen palayi:[] Pablo Fab Lab León, Adrián - Fab Lab León:[]

15:00:52 Von Marius Araújo an Alle: Replying to "The ones graduating after July, get the chance to ...": If you can get there [] Ricardo Marques:[] Luciana Asinari:[]

15:04:23 Von shintaro ito:Node Japan kannai an Alle: Oh no... We only have one month left to announce the final project [] Ricardo Marques:[]

15:04:53 Von Evert an Alle: Replying to "The ones graduating after July, get the chance to ...": WE CAN WE CAN

15:08:03 Von Pablo Fab Lab León an Alle: OMG...my life is passing before my eyes.... Adrián - Fab Lab León:[] shintaro ito:Node Japan kannai:[]

15:08:41 Von Noor Ahmed Raza Pirwani an Alle: Replying to "OMG...my life is passing before my eyes....": things are getting serious

15:08:42 Von Adrián - Fab Lab León an Alle: Time management and spiral development...

15:09:08 Von Pablo Fab Lab León an Alle: Replying to "OMG...my life is passing before my eyes....": things are getting meme-able XD Adrián - Fab Lab León:[] Noor Ahmed Raza Pirwani:[]

15:09:13 Von Felipe-Guarnizo-Ean-Colombia an Alle: The Winter is coming... Pablo Fab Lab León, Adrián - Fab Lab León, saheen palayi:[] Noor Ahmed Raza Pirwani:[]

15:11:31 Von saheen palayi an Alle: join fabacademy and forget about Sleep Magnús - Reykjavík, Omar Baalbaki(SK 7), Milliam, Mkhitar Evoyan, Adrián - Fab Lab León, Shoko K, Hiroe Takeda, Camila Luna:[]

15:12:24 Von Adrián - Fab Lab León an Alle: Replying to "join fabacademy and forget about Sleep": And you lose weight, bikini operation. I lost 6 kilos hehehe []

15:13:33 Von Patrick-waag an Alle: Replying to "join fabacademy and forget about Sleep": me who eats almost 1kg of m&ms / 1.5 week when working on FabAc [] Adrián - Fab Lab León, Rico Kanthatham, Camila Luna:[]

15:13:34 Von Milliam an Alle: Replying to "join fabacademy and forget about Sleep": I guess we look forward to your bikini ready bod Ricardo Marques, Patrick-waag, Lars Mattern - HRW Fablab, Adrián - Fab Lab León, Milliam:[] saheen palayi, Adrián - Fab Lab León:[]

15:15:11 Von saheen palayi an Alle: Arduino firebase library always change,

15:15:34 Von saheen palayi an Alle: try platform.io

15:16:11 Von saheen palayi an Alle: Replying to "try platform.io": for long compiling issue in arduino Felipe-Guarnizo-Ean-Colombia:[]

15:17:44 Von Ricardo Marques an Alle: dual-boot works really well these days

15:19:36 Von Magnús - Reykjavík an Alle: Replying to "dual-boot works really well these days": I had a much faster compilation time in the Arduino IDE when dual booting into Arch on my slow laptop compared to my high-end desktop machine in Windows 11. There's a solid 50% speed increase on paper between the two but Windows bogged things down enough that raw compute didn't matter.

15:19:59 Von Patrick-waag an Alle: Replying to "dual-boot works really well these days": or Virtual Machines ?

15:20:09 Von Adrián - Fab Lab León an Alle: Sujith, you can look this clock made it in Kerala. <https://fabacademy.org/2024/labs/kochi/students/thej-thomas/finalproject.html>

15:21:27 Von Ricardo Marques an Alle: Replying to "dual-boot works really well these days": If using large libraries and more complex programs moving to VS Code is faster. Arduino IDE compiles all code, all the time. VS Code only compiles changes.

15:21:48 Von Forrest O. an Alle: Replying to "try platform.io": Ad Exchange? wrong link?

15:22:17 Von Ricardo Marques an Alle: Replying to "dual-boot works really well these days": Does take some getting used to as the interface is na order of magniture more complex

15:25:52 Von Marius Araújo an Alle: Replying to "try platform.io": <https://platformio.org/>

15:26:24 Von saheen palayi an Alle: WebSerial

15:26:54 Von Pablo Fab Lab León an Alle: write text in your documentations please, so anyone in the future can see your amazing work.

15:27:02 Von shintaro ito:Node Japan kannai an Alle: wow

15:28:04 Von Pablo Fab Lab León an Alle: Thats a final final final project... saheen palayi, Adrián - Fab Lab León:☐☐

15:28:34 Von Rico Kanthatham an Alle: Replying to "Thats a final final final project...": you mean... final final final final final final project

15:28:38 Von Neil an Alle: [http://fab.cba.mit.edu/classes/863.14/people/andrew\\_mao/project/](http://fab.cba.mit.edu/classes/863.14/people/andrew_mao/project/)

15:28:56 Von Ricardo Marques an Alle: Replying to "Thats a final final final project...": As long as it doesn't turn into a final final final final final final destination project Camila Luna, Marius Araújo, saheen palayi:☐☐

15:29:26 Von Milliam an Alle: Replying to "Thats a final final final project...": The project to end all projects Marius Araújo:☐☐

15:29:34 Von Patrick-waag an Alle: Replying to "Thats a final final final project...": you made me remember this :

15:29:47 Von Patrick-waag an Alle: Replying to "Thats a final final final project...": just replace spam with final

15:29:53 Von Jani Ylioja an Alle: maybe helps: <https://promwad.com/news/open-source-motor-control>

15:30:05 Von Jani Ylioja an Alle: there are lots of others as well

15:33:11 Von Milliam an Alle: Cool shaped PCB

15:33:17 Von Jeremy Losaw an Alle: I love that board! Evelyn Andrea Cuadrado Guerrero:♥

15:35:24 Von Pablo Fab Lab León an Alle: Brava Evelyn!!

15:35:27 Von Ricardo Marques an Alle: ☐☐

15:35:35 Von Camila Luna an Alle: ☐☐☐☐☐

15:35:42 Von Rico Kanthatham an Alle: ☐☐

15:35:44 Von María Angela Mejía an Alle: ☐☐☐☐ Go Evelyn!

15:36:30 Von saheen palayi an Alle: @Evelyn Andrea Cuadrado Guerrero

what we done here in kochi , will share link later I cant find it

15:36:38 Von saheen palayi an Alle: {CED54231-C6FE-4696-A8A9-92C464AA93ED}.png

15:37:18 Von Rico Kanthatham an Alle: wow...that was a great explanation! Pablo Fab Lab León:☐

15:37:20 Von saheen palayi an Alle: Replying to "@Evelyn Andrea Cuadrado Guerrero what we done he...": <https://fablabkerala.notion.site/The-tech-behind-Hope-155ac8829e8080798e8cebb353c53388>

15:38:01 Von Ricardo Marques an Alle: yeah CERN Noor Suwaidan:☐

15:38:18 Von Rico Kanthatham an Alle: young Sheldon!!! great taste! Noor Suwaidan:♥ Adrián - Fab Lab León, Camila Luna, Noor Suwaidan:☐

15:39:03 Von Ricardo Marques an Alle: ☐ saheen palayi:☐

15:39:27 Von Rico Kanthatham an Alle: @Noor Suwaidan Join Global Open Time...you will never be alone again Marius Araújo, Noor Suwaidan:♥ Ricardo Marques:☐ Adrián - Fab Lab León, Noor Suwaidan:☐

15:39:33 Von Pablo Fab Lab León an Alle: Price for the best about page. Adrián - Fab Lab León, Doaa El-Bess, Noor Suwaidan:☐

15:39:40 Von Rico Kanthatham an Alle: Replying to "@Noor Suwaidan Join Global Open Time...you will n...": be an electron...mingle! Marius Araújo, Patrick-waag, Noor Suwaidan:☐

15:40:03 Von Forrest O. an Alle: @everybody ☐

15:40:07 Von Forrest O. an Alle: Screenshot2025\_05\_07\_163952.jpg Adrián - Fab Lab León, Mkhitar Evoyan, Marius Araújo, Pablo Fab Lab León, jakob, Patrick-waag, Noor Suwaidan:♥

15:40:36 Von Charath Chandar Natarajan an Alle: @Luciana Asinari There is some network issue in the Trichy Lab, Manikandan will try to fix and connect. If possible he will present today or next week's session

15:41:23 Von Luciana Asinari an Alle: Of course @Charath Chandar Natarajan have them volunteer when online

15:43:43 Von Rico Kanthatham an Alle: I was expecting

15:43:49 Von Evelyn Andrea Cuadrado Guerrero an Alle: Replying to "@Evelyn Andrea Cuadrado Guerrero what we done he...": Thanks! is beautiful! ♥

15:43:53 Von Rico Kanthatham an Alle: Replying to "I was expecting": Arc Reactor! Adrián - Fab Lab León, Mkhitar Evoyan:☐☐

15:44:26 Von Steven an Alle: chart.js for graph display.

15:45:32 Von Pablo Fab Lab León an Alle: I love the look of that game! ☐☐

15:46:09 Von Adrián - Fab Lab León an Alle: Woww cool final Project, i like to see the final result!!

15:48:03 Von Felipe-Guarnizo-Ean-Colombia an Alle: I want to have that game...

15:48:43 Von Milliam an Alle: Replying to "approve.gif": I feel like we should have a Fab board game club Adrián - Fab Lab León, Magnús - Reykjavík, Noor Suwaidan:♥ Geovanny Fortín:☐☐ Marius Araújo:☐☐

15:49:28 Von Pablo Fab Lab León an Alle: Replying to "approve.gif": We need a workshop for Fab25? XD

15:49:32 Von Felipe-Guarnizo-Ean-Colombia an Alle: Replying to "approve.gif": Yes, and the stations can be different fab labs or parts of a fab lab.

15:50:39 Von jakob an Alle: Replying to "approve.gif": Fab 4.0: people are enabled to build what they need, even their own machines. now the goal is to teach everybody building board games from that

15:50:46 Von Milliam an Alle: Replying to "approve.gif": We can play monopoly, but instead of houses it can be mini lab to super fab lab. Pablo Fab Lab León, Adrián - Fab Lab León, Milliam:☐☐

15:50:57 Von Rico Kanthatham an Alle: Norella just...smiles Norella Coronell, Adrián - Fab Lab León, Milliam:☐☐

15:51:08 Von Milliam an Alle: Replying to "approve.gif": Everyone need to come with their own pieces printed.

15:51:13 Von Norella Coronell an Alle: We can have it as a Fab foo session Pablo Fab Lab León, Milliam, Marius Araújo, Adrián - Fab Lab León:☐☐

15:52:02 Von Milliam an Alle: Replying to "We can have it as a Fab foo session": We are going to have so much to do..... @Pablo Fab Lab León @Norella Coronell

15:52:17 Von Norella Coronell an Alle: Replying to "We can have it as a Fab foo session": YES! I need to do my homework

15:52:54 Von Pablo Fab Lab León an Alle: Replying to "We can have it as a Fab foo session": we can make it a non-structured-foo-workshop-we-finish-when-we-want session Milliam, Norella Coronell, Adrián - Fab Lab León:☐☐

15:53:25 Von saheen palayi an Alle: Naoki ☐☐

15:53:55 Von Rico Kanthatham an Alle: Don't resist @Naoki Hayashi san...make the Blender plunge! Adrián - Fab Lab León, Naoki Hayashi:☐☐

15:55:55 Von Adrián - Fab Lab León an Alle: Cool skecth!! Rico Kanthatham, Marius Araújo, Norella Coronell, Hiroe Takeda:☐☐

15:56:20 Von Krisjanis Rijnieks an Alle: henk-printer Pablo Fab Lab León:☐☐ Marius Araújo, Patrick-waag, Adrián - Fab Lab León, Rico Kanthatham, saheen palayi, Geovanny Fortín, Mkhitar Evoyan, Milliam:☐☐

15:56:28 Von Patrick-waag an Alle: Replying to "henk-printer": that is what I heard too XD Camila Luna:☐☐

15:56:40 Von jakob an Alle: Replying to "henk-printer": writing what we all think...

15:56:48 Von Krisjanis Rijnieks an Alle: Replying to "henk-printer": i mean... you made a henk-board. sounds like next level to me Adrián - Fab Lab León, Milliam:☐☐

15:57:08 Von Patrick-waag an Alle: Replying to "henk-printer": that was Dylan

15:57:22 Von Krisjanis Rijnieks an Alle: Replying to "henk-printer": you from the same lab. you same as dylan Patrick-waag:☐☐

15:57:34 Von Adrián - Fab Lab León an Alle: Wow awesome system integration

15:57:35 Von Patrick-waag an Alle: Replying to "henk-printer": I am his documentation xD

15:57:38 Von Krisjanis Rijnieks an Alle: Replying to "henk-printer": you = henk Patrick-waag:☐☐

15:57:46 Von Rico Kanthatham an Alle: Nice FP tracking page! Adrián - Fab Lab León:♥

15:59:47 Von ferdi an Alle: Have a look at Goliath CNC  
<https://www.kickstarter.com/projects/2130625347/goliath-cnc-an-autonomous-robotic-machine-tool-for/description> Marius Araújo, Ricardo Marques:☐☐

16:00:48 Von Marius Araújo an Alle: Replying to "Have a look at Goliath CNC  
<https://www.kickstarter.com/projects/2130625347/goliath-cnc-an-autonomous-robotic-machine-tool-for/description>": Whoa! Interesting!

16:00:52 Von ferdi an Alle: goliath is now using two strings for tracking.

16:00:59 Von saheen palayi an Alle: <https://www.instagram.com/reel/DFx87o2ucn1/> this uses a lidar

16:01:38 Von Adrián - Fab Lab León an Alle: Replying to "Have a look at Goliath CNC  
<https://www.kickstarter.com/projects/2130625347/goliath-cnc-an-autonomous-robotic-machine-tool-for/description>": Lena, from HRW Botttrop uses in her final Project.

16:02:20 Von saheen palayi an Alle: Replying to "https://www.instagram.com/reel/DFx87o2ucn1/this ...": <https://inspenet.com/en/noticias/the-mobiprint-3d-printer-prints-on-any-surface/>

<https://youtu.be/SknW-0ygh3w>

16:02:24 Von Pablo Fab Lab León an Alle: i love the concept.

16:02:56 Von Svavar Konradsson - Fab Lab Isafjordur an Alle: Go Magnús! Ricardo Marques, Andri Sæmundsson - Fab Lab Reykjavik:[]

16:03:44 Von saheen palayi an Alle: Replying to "https://www.instagram.com/reel/DFx87o2ucn1/this ...": make a robot and simply take a prusa mini from ur lab then put it on top of it.[] Marius Araújo, Doaa El-Bess:[] Adrián - Fab Lab León:[] Naoki Hayashi:[]

16:03:45 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Áfram Magnús! Andri Sæmundsson - Fab Lab Reykjavik:[]

16:07:04 Von Rico Kanthatham an Alle: @Naoki Hayashi do you know this old item?  
<https://www.youtube.com/watch?v=UCKC-QVcVn0> Naoki Hayashi:[]

16:07:07 Von jakob an Alle: wooooooooooooooooo!

16:07:34 Von Evert an Alle: Religion maybe cult Adrián - Fab Lab León:[]

16:07:48 Von Mika an Alle: Who would bring Cards to the Conference? we could use of the room to start a nice "tournament"

16:07:49 Von Patrick-waag an Alle: and there is one card to rule them all []

16:09:38 Von Pablo Fab Lab León an Alle: Replying to "Who would bring Cards to the Conference? we could ...": you need to make your own card first, Fab Academy characters and spells Adrián - Fab Lab León:[]

16:09:46 Von Forrest O. an Alle: eat the frog... jump into the hard bit ASAP!

16:10:07 Von Lambert Rulindana an Alle: Alan (Rwanda) he was having audio problem but now it's okay

16:10:05 Von Svavar Konradsson - Fab Lab Isafjordur an Alle: Replying to "eat the frog... jump into the hard bit ASAP!": Yes! Check out OpenCV!

16:12:28 Von Svavar Konradsson - Fab Lab Isafjordur an Alle: Replying to "eat the frog... jump into the hard bit ASAP!": And maybe OCR for ESP32-CAM or the Xiao camera

16:15:22 Von Adrián - Fab Lab León an Alle: During the bootcamp in Lima they made this recognition of electronic components in the inventory.  
<https://academany.fabcloud.io/fabacademy/2025/bootcamp-instructors/AiyeAssistant/>

16:16:47 Von Milliam an Alle: Replying to "Who would bring Cards to the Conference? we could ...":  
20250507231641.jpg Ricardo Marques, Forrest O.: Pablo Fab Lab León, Adrián - Fab Lab León,  
Norella Coronell:

16:18:14 Von Rico Kanthatham an Alle: go Roshan!!!

16:19:28 Von Superfablab Kochi an Alle: Let's Goooo Roshann!!!

16:20:44 Von Pablo Fab Lab León an Alle: blynk is a plus i think, you dont design the interface :P

16:21:36 Von Adrián - Fab Lab León an Alle: @Milliam with neopixels  Milliam:

16:21:48 Von Rico Kanthatham an Alle: A Palovian training tool for kids in the shape of a dog...  
Milliam:

16:22:00 Von Adrián - Fab Lab León an Alle: @Roshan nice system integration Roshan:

16:22:20 Von Rico Kanthatham an Alle: Replying to "A Palovian training tool for kids in the shape of ...": pavlovian

16:22:40 Von Pablo Fab Lab León an Alle: Replying to "A Palovian training tool for kids in the shape of ...": for kids....mmmmm, i buy it XD

16:22:40 Von Rico Kanthatham an Alle: Nice diagram Roshan!! Roshan: Adrián - Fab Lab León:


16:22:42 Von Ricardo Marques an Alle: Replying to "A Palovian training tool for kids in the shape of ...": involving chocolate too

16:22:59 Von Norella Coronell an Alle: Replying to "Who would bring Cards to the Conference? we could ...": Ready for the tournament Adrián - Fab Lab León:

16:23:01 Von Norella Coronell an Alle: Replying to "Who would bring Cards to the Conference? we could ...": WhatsApp Image 2025-05-07 at 09.22.03.jpeg Milliam: Pablo Fab Lab León, Magnús - Reykjavík, Adrián - Fab Lab León: Luciana Asinari:

16:23:10 Von Rico Kanthatham an Alle: Every failure is a learning opportunity! Adrián - Fab Lab León:

16:23:56 Von Wangzom an Alle: Roshan with his dog model

16:24:02 Von Wangzom an Alle: 202505072023560000.jpg Milliam:♥ Jani Ylioja, Maki Laura TANAKA, Hiroe Takeda, Forrest O.: Pablo Fab Lab León, Adrián - Fab Lab León, Marius Araújo:  
Rico Kanthatham, Gayatri projects:

16:24:03 Von Forrest O. an Alle: Replying to "Who would bring Cards to the Conference? we could ...": My 9yo will want to come. 

16:26:26 Von Felipe-Guarnizo-Ean-Colombia an Alle: Replying to "202505072023560000.jpg": What breed of dog is it? Does the dog bite?

16:27:08 Von Mika an Alle: Replying to "Who would bring Cards to the Conference? we could ...": @Pablo Fab Lab León no Problem . have already some custom one . But no FabLab themed ones

16:28:21 Von Milliam an Alle: Replying to "202505072023560000.jpg": Is it a good boy? Felipe-Guarnizo-Ean-Colombia:☹️ Adrián - Fab Lab León, Pablo Fab Lab León:☹️

16:28:28 Von Adrián - Fab Lab León an Alle: @Reginald Itiseng you can loo this final Project from Kerala <https://fabacademy.org/2023/labs/kochi/students/mufeed-mohamed/presentation.mp4>

16:29:38 Von Adrián - Fab Lab León an Alle: Kerala ruleless

16:29:39 Von Rico Kanthatham an Alle: NAMITA!!!

16:29:43 Von Pablo Fab Lab León an Alle: Kerala! surprise surprise... Adrián - Fab Lab León:☹️

16:30:22 Von Milliam an Alle: @saheen palayi get ready to get embarrassed in a global scale Adrián - Fab Lab León:☹️

16:30:28 Von Rico Kanthatham an Alle: She "made" her instructor beta test the result for hours Patrick-waag, Adrián - Fab Lab León, Ricardo Marques:☹️

16:32:00 Von Pablo Fab Lab León an Alle: Replying to "Who would bring Cards to the Conference? we could ...": I made the first one...

16:32:05 Von Pablo Fab Lab León an Alle: Replying to "Who would bring Cards to the Conference? we could ...": neil-magic-card.png Adrián - Fab Lab León, Patrick-waag, Norella Coronell:☹️ Ricardo Marques, Milliam:☹️

16:32:45 Von saheen palayi an Alle: Replying to "She "made" her instructor beta test the result for...": ☹️technically she cheated us too fast Rico Kanthatham, Adrián - Fab Lab León, Pablo Fab Lab León:☹️

16:38:23 Von Milliam an Alle: Replying to "She "made" her instructor beta test the result for...": We'll let the global FabAcademy Game club decide that. saheen palayi:☹️ Superfablab Kochi:☹️

16:42:45 Von Magnús - Reykjavík an Alle: Replying to "Who would bring Cards to the Conference? we could ...": @Pablo Fab Lab León Is that fully AI-Generated or did you do the card text manually? If so, what tools are you using for that? Norella Coronell:☹️

16:47:56 Von Patrick-waag an Alle: is it just a light sensor ?

16:48:09 Von Adrián - Fab Lab León an Alle: Replying to "is it just a light sensor ?": PIR Patrick-waag:☹️

16:48:10 Von Daniel Perez an Alle: die he/she graduated?

16:48:13 Von Jorge - Fablab SCZ an Alle: A light saber lol

16:48:35 Von Felipe-Guarnizo-Ean-Colombia an Alle: That project just requires paint and that's it  
haha Daniel Perez:☐☐

16:48:39 Von Magnús - Reykjavík an Alle: Replying to "Who would bring Cards to the Conference?  
we could ...": (I'm curious cause it's a perfect match for the lettering, Quite impressive if AI)

16:48:48 Von Magnús - Reykjavík an Alle: Replying to "Who would bring Cards to the Conference?  
we could ...": That and also I want to make some too >.<

16:50:16 Von Pablo Fab Lab León an Alle: Replying to "Who would bring Cards to the Conference?  
we could ...": simple prompt i use: I want you to make a Magic card, but it has to be of a real person.  
I want you to imagine all the attributes, the image in the style of a real Magic card. I want the first  
one to be of Neil Gershenfeld.

16:53:38 Von jakob an Alle: There is a great course on design for non-designers by aalto university.  
its online and accessible by everyone: <https://designbits.aalto.fi/en/> Pablo Fab Lab León, Adrián - Fab  
Lab León:☐☐

16:54:25 Von Pablo Fab Lab León an Alle: incredible recitation....Adrian will find the video

16:56:15 Von Ricardo Marques an Alle:  
[https://en.wikipedia.org/wiki/Geometric\\_dimensioning\\_and\\_tolerancing](https://en.wikipedia.org/wiki/Geometric_dimensioning_and_tolerancing)

16:56:33 Von Adrián - Fab Lab León an Alle: Replying to "incredible recitation....Adrian will find the  
vide...": <https://vimeo.com/254518604> Jan Borchers recitation video

16:59:47 Von shintaro ito:Node Japan kannai an Alle: The Design of Everyday Things, written by  
Don Norman, is of great value in learning about user interfaces and human-centered design. See it  
if you are interested. <https://amzn.asia/d/b1k28jA>

17:01:52 Von Ricardo Marques an Alle: <https://www.imdb.com/title/tt1241325/> is a really nice  
documentar on design. Gary Hustwit has a couple of them. Netflix also has a nice series covering  
diferent design subjects. From Architecture to toys. Pablo Fab Lab León:☐☐

17:03:37 Von saheen palayi an Alle: oh we just assembling our prusa XL wiring is amazingly  
managed in it Adrián - Fab Lab León:☐☐

17:04:02 Von Milliam an Alle: Replying to "oh we just assembling our prusa XL wiring is amazi...":  
So jealous Ricardo Marques, Patrick-waag, Marius Araújo:☐☐

17:04:26 Von Ricardo Marques an Alle: Replying to "oh we just assembling our prusa XL wiring is  
amazi...": How many extruders?

17:04:30 Von Camila Luna an Alle: Replying to "https://www.imdb.com/title/tt1241325/ is a really ...": Yes, Abstract: the art of design on Netflix is pretty cool and super interesting!! Ricardo Marques:☐☐ Adrián - Fab Lab León:☐☐

17:04:53 Von Marius Araújo an Alle: Replying to "oh we just assembling our prusa XL wiring is amazi...": 15 XD Adrián - Fab Lab León:☐☐ Ricardo Marques:☐☐

17:05:27 Von Ricardo Marques an Alle:  
[https://en.wikipedia.org/wiki/Failure\\_mode\\_and\\_effects\\_analysis](https://en.wikipedia.org/wiki/Failure_mode_and_effects_analysis)

17:06:15 Von saheen palayi an Alle: Replying to "oh we just assembling our prusa XL wiring is amazi...": @Ricardo Marques 1,2,3,5 then I see a : ) Ricardo Marques:☐☐

17:06:17 Von Ilmenau - Benedikt Feit an Alle: Replying to "oh we just assembling our prusa XL wiring is amazi...": except of the housing some wires at the back are messy because they are too long or the LED rerouting is not optimal because it needs to take the same way twice.

17:06:33 Von saheen palayi an Alle: Replying to "oh we just assembling our prusa XL wiring is amazi...": @Milliam ha

17:06:45 Von Rico Kanthatham an Alle: Replying to "https://www.imdb.com/title/tt1241325/ is a really ...": Braun design philosophy

<https://www.youtube.com/watch?v=zNQv0ZX2eno>

Adrián - Fab Lab León:♥☐

saheen palayi:☐☐

17:06:57 Von saheen palayi an Alle: Replying to "oh we just assembling our prusa XL wiring is amazi...": 20250507\_203442.jpg Adrián - Fab Lab León, Ricardo Marques, Milliam:☐☐

17:08:03 Von Ricardo Marques an Alle: Replying to "https://www.imdb.com/title/tt1241325/ is a really ...": Gary has a documentar about Dieter Rams that kind of jumpstarted the whole design at Braun thing <https://www.imdb.com/title/tt8423080/>

17:08:17 Von Rico Kanthatham an Alle: Replying to "https://www.imdb.com/title/tt1241325/ is a really ...": Teenage Engineering design [https://www.youtube.com/watch?v=qCliqmX\\_TQ4](https://www.youtube.com/watch?v=qCliqmX_TQ4)

17:08:29 Von shintaro ito:Node Japan kannai an Alle: It is very difficult, but I am sure that Engineering a Safer World: Systems Thinking Applied to Safety by Nancy G. Leveson will be helpful in considering the safety of complex system systems systems. If you are interested in this book from a testing perspective, read it. (I'm not a bookseller's spinner ☐☐ )  
<https://mitpress.mit.edu/9780262533690/engineering-a-safer-world/>

17:10:00 Von Krisjanis Rijnieks an Alle: funny, but i did a similar project this weekend

17:11:15 Von Krisjanis Rijnieks an Alle: same problem, a handle broke off just because there was no fillet

17:13:06 Von Milliam an Alle: Replying to "oh we just assembling our prusa XL wiring is amazi...": @saheen palayi I was just jealous of the assembling it part saheen palayi:☐

17:13:19 Von Adrián - Fab Lab León an Alle: Replying to "oh we just assembling our prusa XL wiring is amazi...": Me too

17:13:20 Von Milliam an Alle: Replying to "oh we just assembling our prusa XL wiring is amazi...": ☐

17:15:04 Von saheen palayi an Alle: Replying to "oh we just assembling our prusa XL wiring is amazi...": @Milliam oh sorry almost done, Milliam:☐

17:15:20 Von Ricardo Marques an Alle: ressonance is fun

17:16:07 Von Rico Kanthatham an Alle: Replying to "ressonance is fun": ...until it's not Marita Chang, saheen palayi, Patrick-waag, Adrián - Fab Lab León:☐ Ricardo Marques, Marius Araújo, Patrick-waag:☐

17:16:56 Von Marius Araújo an Alle: Replying to "ressonance is fun": I was told marching armies aren't allowed to cross bridges for this reason Ricardo Marques:☐

17:17:21 Von Ricardo Marques an Alle: Replying to "ressonance is fun": They kind of just stop marching on the bridge xD

17:17:59 Von Marius Araújo an Alle: Replying to "ressonance is fun": I suppose marching isn't as popular anymore Pablo Fab Lab León:☐

17:18:04 Von Forrest O. an Alle: Good bridge engineering nerdy love letter... i appreciated this living next to a new one in Helsinki. <https://www.youtube.com/watch?v=YSQhtlyfPtU>

17:21:11 Von Adrián - Fab Lab León an Alle: System Integration with connectors:

<https://fabacademy.org/2020/labs/leon/students/adrian-torres/images/project/week19.01.jpg>

<https://fabacademy.org/2020/labs/leon/students/adrian-torres/images/project/week19.15.jpg>

17:22:47 Von jakob an Alle: So should this be a general rule of thumb that we add 100 ohm resistors in front of Tx and Rx pins where a connector comes after it?

17:23:45 Von jakob an Alle: Replying to "So should this be a general rule of thumb that we ...": thanks

17:23:53 Von Ilmenau - Benedikt Feit an Alle: Is this also the idea behind the resistor in the dataline for Neopixels?

17:23:54 Von saheen palayi an Alle: trotec speedy400 laser has nice wiring management as well but.. they forgot patch some holes

when u have a advanced Bio automatic wire stripper ☐☐living in the lab  
Adrián - Fab Lab León:☐☐

17:24:12 Von saheen palayi an Alle: {0C1DCB24-3A8F-4C78-A9BA-ABFA6AF9FEF2}.png Ricardo Marques, Patrick-waag:☐☐

17:24:23 Von Adrián - Fab Lab León an Alle: Replying to "{0C1DCB24-3A8F-4C78-A9BA-ABFA6AF9FEF2}.png": Oh no

17:24:25 Von Ricardo Marques an Alle: 1 way headers are also na option.

17:24:28 Von Ricardo Marques an Alle: {EB37D30A-D61A-4C8F-A946-4163647ECC61}.png

17:29:45 Von saheen palayi an Alle: Note:- all xiao has EMI shielding

17:30:27 Von Patrick-waag an Alle: weird thing in my new house when turning on the gas oven the TV freezes for some secs XD Adrián - Fab Lab León:☐☐

17:30:55 Von Patrick-waag an Alle: Replying to "weird thing in my new house when turning on the ga...": and I have no clue why the oven releases EM waves ☐☐

17:31:48 Von Ricardo Marques an Alle: Replying to "weird thing in my new house when turning on the ga...": Weird EM waves/noise from the starter spark?

17:32:07 Von Magnús - Reykjavík an Alle: Replying to "weird thing in my new house when turning on the ga...": I'm convinced the WiFi here at the lab is getting momentarily knocked out by EM interference from a nearby elevator. Signal analyzer graph shows drops on all signals in the building. ☐☐ Patrick-waag:☐☐

17:32:29 Von Patrick-waag an Alle: Replying to "weird thing in my new house when turning on the ga...": @Ricardo Marques possibly

17:32:35 Von Adrián - Fab Lab León an Alle: Kaput the Lunyee

17:32:47 Von Adrián - Fab Lab León an Alle: Replying to "Kaput the Lunyee": Ans smoke strange hehe

17:33:03 Von Ricardo Marques an Alle: Replying to "weird thing in my new house when turning on the ga...": Magnus, weird voltage drop whenever the motors move?

17:33:07 Von Evert an Alle: Or put 230V on the power supply on 110V setting Ricardo Marques, Rico Kanthatham:☐☐ Adrián - Fab Lab León, saheen palayi:☐☐



17:33:48 Von Ricardo Marques an Alle: Replying to "weird thing in my new house when turning on the ga...": Or just mains noise. I had to add EMI filters on a few devices that were resetting whenever some things were turned on lol

17:34:44 Von Magnús - Reykjavík an Alle: Replying to "weird thing in my new house when turning on the ga...": It's not a voltage drop, Probably just sparking from an old elevator. The signal doesn't get knocked out completely. I forgot to take a screenshot and I don't have proof that it's the elevator yet

17:35:05 Von Magnús - Reykjavík an Alle: Replying to "weird thing in my new house when turning on the ga...": But it's funny seeing the signal strength from all the networks drop at the same time

17:35:44 Von saheen palayi an Alle: Replying to "Or put 230V on the power supply on 110V setting": haha, most of the weller soldering stations from our lab has the same story to tell,

17:36:09 Von Ricardo Marques an Alle: Replying to "weird thing in my new house when turning on the ga...": Try getting or making na EMI filter. You can make a rudimentar one with LED flicker safety capacitors. See if a single device is spared.

17:36:14 Von henk an Alle: [http://sam-78f04d.waaglabs.nl/Assignments/extra\\_research/FR-1-traces/](http://sam-78f04d.waaglabs.nl/Assignments/extra_research/FR-1-traces/) Adrián - Fab Lab León:  Hiroe Takeda: 

17:37:08 Von Ricardo Marques an Alle: Replying to "weird thing in my new house when turning on the ga...": They almost always have the schematics on them, the inductors are nice but just the capacitors go a long way.

17:37:13 Von Ricardo Marques an Alle: Replying to "weird thing in my new house when turning on the ga...": {A70FBA14-AD69-4B45-9A2A-5BABBA726854}.png

17:38:36 Von jakob an Alle: would a ground plane help here?

17:38:42 Von jakob an Alle: Replying to "would a ground plane help here?": with the problem you showed?

17:39:11 Von Adrián - Fab Lab León an Alle: If you have two circuits and they are independent, the grounds (GND) must be connected.

17:39:40 Von jakob an Alle: Replying to "would a ground plane help here?": what about assigning ground to all copper that is "leftover" when milling?

17:39:46 Von jakob an Alle: Replying to "would a ground plane help here?": its not a plane

17:40:17 Von jakob an Alle: Replying to "would a ground plane help here?": but it is a similar thing as i understand

17:42:55 Von Ricardo Marques an Alle: variables can also be Pass by Value or Pass by Reference and that can get weird.

17:47:23 Von Magnús - Reykjavík an Alle: (There are around 50k unique magic cards, counting different printings of the same card) ☐☐

17:48:43 Von Adrián - Fab Lab León an Alle: Grounding is always important (the black wire that runs through that installation). What I'm touching carries 400 kV AC... without grounding, it's better not to touch it, hehe.

17:48:50 Von Adrián - Fab Lab León an Alle: {608BDC16-97F4-445D-8016-FC4E46D25793}.png  
Hiroe Takeda, Patrick-waag:☐☐

17:50:12 Von Steven an Alle: Space shuttle & Intel 8086 IC - NASA had to purchase these from eBay Patrick-waag, saheen palayi, Adrián - Fab Lab León:☐☐ Camila Luna:☐☐ Eman Elkfrawy:☐☐

17:51:02 Von ferdi an Ricardo Marques (Direktnachricht): Talking About the lumen pnp:  
<https://www.autoevolution.com/news/desperate-times-companies-buy-washing-machines-just-to-rip-out-the-chips-187033.html>

17:51:02 Von Magnús - Reykjavík an Alle: Replying to "(There are around 50k unique magic cards, counting...": Expanding on this. I've been setting up an open source scanning program on my laptop. I started downloading and adding the card sets at 11:00, It is now almost 16:00 and I'm almost a third of the way ☐☐

17:51:40 Von Ricardo Marques an ferdi (Direktnachricht): Replying to "Talking About the lumen pnp:<https://www.autoevolut...>": you're still on the private message mode to me, think you want to share that with everyone xD

17:52:34 Von ferdi an Ricardo Marques (Direktnachricht): Oh...sorry....not so important!

17:53:13 Von Ricardo Marques an ferdi (Direktnachricht): Replying to "Oh...sorry....not so important!": no worries lol I think you didn't answer my question about finding yourself in Portugal xD

17:54:03 Von Neil an Alle:  
[https://www.ted.com/talks/neil\\_gershenfeld\\_ready\\_fire\\_aim\\_may\\_2023/transcript](https://www.ted.com/talks/neil_gershenfeld_ready_fire_aim_may_2023/transcript)

17:54:47 Von ferdi an Ricardo Marques (Direktnachricht): Oh, sorry....it got lost in the masses! What was your question? How I got to Portugal?

17:55:10 Von Ricardo Marques an ferdi (Direktnachricht): Replying to "Oh, sorry....it got lost in the masses!What was your...": yeah I went through the website and noticed the mention you worked in Portugal? I'm portuguese so, always fun xD

17:55:15 Von henk an Alle: <https://youtu.be/SsIZHReoaBk>

17:55:34 Von henk an Alle: Ready-Fire-Aim | Neil Gershenfeld | TEDxMIT Salon

17:56:43 Von ferdi an Ricardo Marques (Direktnachricht): Replying to "Oh, sorry....it got lost in the masses!What was your...": Yes! I did FabAcademy in Lisbon:  
<https://fabacademy.org/2013/students/meier.ferdinand/about.html> Are you still at FCT? Ricardo Marques:☐☐

17:57:13 Von Adrián - Fab Lab León an Alle: Modular board. Adrianino

17:57:19 Von Adrián - Fab Lab León an Alle: {1A119C22-6CCA-4B7A-B706-E17B09F04323}.png  
saheen palayi:☐☐

17:57:27 Von Ilmenau - Benedikt Feit an Alle: Isn't any connector that you add also a weakspot? Where is the sweet spot between to much modularity and only one oiece?

17:58:00 Von Ricardo Marques an ferdi (Direktnachricht): Replying to "Oh, sorry....it got lost in the masses!What was your...": Nah I just did Fab Academy there, and it was a whole mess lol I am helping Fab Academy this year in Benfica.

17:58:42 Von Ricardo Marques an ferdi (Direktnachricht): Replying to "Oh, sorry....it got lost in the masses!What was your...": it's a bit ironic that I have to ask you, but what's up with EDP Fab Lab? lol I tried visiting it once and what not but I can't figure out if it's still active or not lol

17:58:57 Von ferdi an Ricardo Marques (Direktnachricht): Replying to "Oh, sorry....it got lost in the masses!What was your...": Ah....cool! Greetings to André!

18:00:09 Von Ricardo Marques an ferdi (Direktnachricht): Replying to "Oh, sorry....it got lost in the masses!What was your...": Will do! How's Matthias holding up? We had some airport shenanigans last year getting from Puebla to Cancun lol

18:00:27 Von ferdi an Ricardo Marques (Direktnachricht): Replying to "Oh, sorry....it got lost in the masses!What was your...": Haven't heard from EDP in a while since Tiago Rorke left. Paulo still seems to be there. Ricardo Marques:☐☐

18:01:14 Von Ricardo Marques an ferdi (Direktnachricht): Replying to "Oh, sorry....it got lost in the masses!What was your...": what's your number on WhatsApp? I'd like to know more about the incubator/fablab thing you guys have going on

18:01:27 Von Adrián - Fab Lab León an Alle: Remember, Global Open Time returns this Saturday at 10:00 AM Boston Time. Final project reviews are welcome. ☐☐ Camila Luna:♥ Forrest O.:☐☐ Ricardo Marques:☐☐

18:01:44 Von ferdi an Ricardo Marques (Direktnachricht): Replying to "Oh, sorry....it got lost in the masses!What was your...": He's still holding up, but struggling a lot! You should talk to him in Prague!

18:02:22 Von Pablo Fab Lab León an Alle: beautiful is not an option XD Daniel Osika, Adrián - Fab Lab León, Jani Ylioja:☐☐

18:02:28 Von ferdi an Ricardo Marques (Direktnachricht): Replying to "Oh, sorry....it got lost in the masses!What was your...": +49 176 2700 2591 Call me whenever you want (also WhatsApp, Signal..)