

Week 9: Input Devices

- regional meeting
- prep meeting
- gobal class homework
- global class
- recitation
- local class

regional meeting

Mkhitar Evoyan



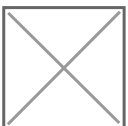
Jakob



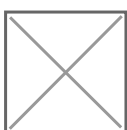
Sam Hos



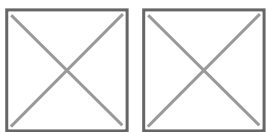
Irja Linnerud



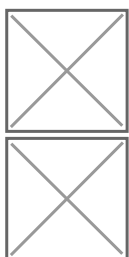
rivets: 0.6, 0.8, 1mm Bungard favorit



Dylan Heneck



Patrick Dezséri



prep meeting

Neil makes perfect PCBs with the XCarve down to 0,001inch

Grove Vision AI Module

gobal class homework

Sophia



<https://code.ulb.ac.be/lab/IRIDIA>

https://iridia.ulb.ac.be/wiki/Main_Page

Ofelia Sevilla



Final project:



Vinyl/cardboard cut modules



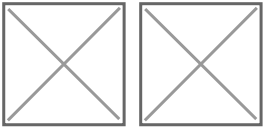
vinyl pcb



Edward Woodhouse

No page

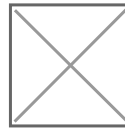
Dylan Heneck



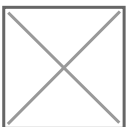
Ana Camila Luna Lopez

Gerber2png

<https://git.fablabkerala.in/midlaj/gerber2png/-/wikis/home>



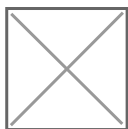
Namita Aravind



missed the guy from Kerala milling on a big CNC

Patrick Dezséri

Abin Mathew



global class

https://academy.cba.mit.edu/classes/input_devices/index.html

[bouncy-buttons](#)

[Japanese toilet](#)

recitation

Leo Mc Elroy

<https://blot.hackclub.com/>

<https://blot.hackclub.com/gallery>

<https://github.com/hackclub/blot>

Jens Dyvik

<https://github.com/fellesverkstedet>

[Making, Sharing, Living](#)

Danielle Ingrassia

<https://www.inmachines.net/>

<https://github.com/Open-Lab-Starter-Kit/>

<https://github.com/orgs/Open-Lab-Starter-Kit/repositories>



Jake Read

<https://clank.tools/build/>

Quentin

<https://lab.cba.mit.edu/quentinbolsee>

Nadya Peek

https://www.jubilee3d.com/index.php?title=Main_Page

Chat

14:10:31 Von Ricardo Marques an Alle: ☐☐

14:11:54 Von olof an Alle: Wow!

14:13:08 Von Rahul Rajan an Alle: Thank you☐☐ Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab, Bir Maya Rai JNWSFL, Gayatri prasad:♥

14:13:40 Von Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab an Alle: awesome @Rahul Rajan :) Rahul Rajan:♥

14:17:16 Von jakob an Alle: The name is probably coming from the kalevala, a piece of literature full of finnish mythology: <https://en.wikipedia.org/wiki/Sampo>

14:17:36 Von Justyn Woods an Alle: can you see my face in chat

14:17:40 Von Magnús Pétursson - Reykjavík an Alle: There also seems to be a space in between the bracket in the filename Jani Ylioja:☐☐

14:25:17 Von Jani Ylioja an Alle: Replying to "The name is probably coming from the kalevala, a p...": Correct, Sampo was a machine producing riches

14:30:50 Von Jeremy Losaw an Alle: bom link is broken on the Blot GH

14:30:54 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Tahnk you Leo! Leo:☐☐

14:31:20 Von Þórarinn Bjartur Breiðfjörð Gunnarsson an Alle: Go Jens!

14:31:35 Von Leo an Alle: <https://github.com/hackclub/blot/blob/main/docs/assembly/ASSEMBLY.md> Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab, Þórarinn Bjartur Breiðfjörð Gunnarsson:♥

14:32:08 Von Leo an Alle: <https://github.com/hackclub/blot/blob/main/docs/BOM.toml>

14:32:55 Von Leo an Alle: Replying to "bom link is broken on the Blot GH": Oh no! Can you point me at which one? I've passed off maintainership of the project but can send a PR to fix it.

14:33:14 Von Jeremy Losaw an Alle: ok, great!.. the link on assembly page is a dead end, but direct link works

14:33:15 Von Jeremy Losaw an Alle: thanks

14:33:48 Von Patrick an Alle: will all the different links be added to the schedule page ?

14:34:12 Von Quentin an Alle: You can find all links here: <https://machines.fabcloud.io/> Patrick:☐
Patrick, Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:☐

14:35:17 Von InMachines an Alle: The first Fab Lab made machine I have seen in person was from Jens, something like 8-9 years ago ☐. His works on machine building have been inspiring us a lot since the start. Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab, Leo:♥ Ricardo Marques, Leo:☐

14:41:39 Von InMachines an Alle: What are the motors used in this CNC?

14:42:14 Von Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab an Alle: Great work @Jens Dyvik

14:42:46 Von Ricardo Marques an Alle: <https://www.inmachines.net/>

14:43:03 Von Jens Dyvik an Alle: Replying to "Great work @Jens Dyvik": Thank you Frosti! I hope we can catch up soon Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:♥

14:43:49 Von Jens Dyvik an Alle: Replying to "What are the motors used in this CNC?": JMC closed loop stepper motors with integrated drivers InMachines:☐

14:44:09 Von Patrick an Alle: is the lasersaur related to you ? ☐ we have one at our fablab

14:51:31 Von Gayatri prasad an Alle: wow Great

14:52:39 Von InMachines an Alle: <https://github.com/orgs/Open-Lab-Starter-Kit/repositories>
Miriam:♥

14:52:53 Von Jens Dyvik an Alle: Smashing work Daniele! So cool to see :) Leo:☐ Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:☐

14:52:54 Von InMachines an Alle: is the lasersaur related to you ? ☐ we have one at our fablab
nope Patrick:☐

14:53:16 Von Andrew Mark an Alle: The UI is so much better than even most commercial machines I love the idea of having a more standardized workflow for all of these different machines

14:53:27 Von Jens Dyvik an Alle: Replying to "The UI is so much better than even most commercial...": Me too

14:54:16 Von Ricardo Marques an Alle: Replying to "<https://github.com/orgs/Open-Lab-Starter-Kit/repos...>": zup Daniele, got anything online on the tool changer? Or a link to the OLOS software

thing? searching online links to the large cnc repo ☐☐

14:55:02 Von InMachines an Alle: Replying to "The UI is so much better than even most commercial...": Thanks, this is OLOS: <https://github.com/Open-Lab-Starter-Kit/Open-Lab-Operating-System> Andrew Mark:☐☐

14:56:48 Von InMachines an Alle: Replying to "<https://github.com/orgs/Open-Lab-Starter-Kit/repos...>": <https://github.com/Open-Lab-Starter-Kit/Open-Lab-Operating-System> Ricardo Marques:♥

14:57:12 Von Nadya Peek (she/her) an Alle: Replying to "is the lasersaur related to you ? ☐☐ we have one a...": I think the Lasersaur was a very OG open source project from Nortd labs! <https://www.nortd.com/>

14:57:53 Von InMachines an Alle: For Ricardo Marques that has been asking since 1 year: the large CNC has been finally been released here: <https://github.com/Open-Lab-Starter-Kit/OLSK-Large-CNC> Jens Dyvik, Tshering Dorji JNWSFL:♥ Ricardo Marques:☐☐

14:58:46 Von InMachines an Alle: Replying to "<https://github.com/orgs/Open-Lab-Starter-Kit/repos...>": Check this code here: <https://github.com/Open-Lab-Starter-Kit/OLSK-Large-CNC/tree/main/firmware> Ricardo Marques:♥

14:59:19 Von jakob an Alle: Is there a link to the documentation on the printer optimization project?

14:59:49 Von InMachines an Alle: Replying to "is the lasersaur related to you ? ☐☐ we have one a...": The Large Laser is released here: <https://github.com/Open-Lab-Starter-Kit/OLSK-Large-Laser>

15:00:11 Von Adrián - Fab Lab León an Alle: <https://github.com/modular-things/modular-things> Bart -SP Fablab:♥

15:01:01 Von jakob an Alle: Replying to "<https://github.com/modular-things/modular-things>": thanks

15:03:26 Von Jake Read an Alle: Replying to "Is there a link to the documentation on the printe...": the optimization work isn't published yet, I did do a few disclosures recently though, these are just descriptions:

<https://github.com/jakeread/mpc-for-additive-extrusion>

<https://github.com/jakeread/generating-extrudate-flow-models>

<https://github.com/jakeread/realtime-melt-flow-measurements>

<https://github.com/jakeread/realtime-filament-width-measurement-and-correction>

<https://github.com/jakeread/distributed-motion-systems-using-clock-sync-and-time-encoding>

Rahul Rajan:☐☐

15:06:33 Von Pablo Fab Lab Leon an Alle: Super Nadia!

15:09:34 Von Adrián - Fab Lab León an Alle: Awesome Nadia!! Bart -SP Fablab, Miriam:♥

15:09:51 Von andri-fab lab reykjavik an Alle: Thank you all, very inspriring

15:09:51 Von Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab an Alle: what a line up of talents, thank you all, this is fantastic :) Tshering Dorji JNWSFL:♥

15:10:02 Von Adrián - Fab Lab León an Alle: Thank you all!!

15:10:00 Von Nadya Peek (she/her) an Alle: <https://github.com/machineagency/science-jubilee>

15:10:03 Von InMachines an Alle: Thank to everyone!

local class

How NTC Thermistors and RTDs Differ

Slides from Danielle Input devices