

global class

Sketchpad - Draw, C...

Quentin Bolsee / Ur...

Low-Stretch Coated x

← → ↺ 🏠

🔒 https://www.mcmaster.com/34235T27/

☆

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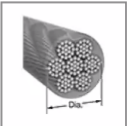
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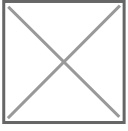
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<https://gitlab.cba.mit.edu/neilg/urumbu/-/tree/master/UrumbotXY>



Urumbubot2.0



MPC = Model predictive Control

Chat

14:39:14 Von Babken Chugaszyan an Alle: It;s surprisingly similar to our 2023 machine
https://fabacademy.org/2023/labs/dilijan/projects/machine_building/ Adrián - Fab Lab León:♥

14:42:05 Von Claire: Lake Mac Libraries Fab Lab an Alle: Can you please take us off the machine list Neil, my student has had to drop out Milliam, Rico Kanthatham:☐

14:42:15 Von Jani Ylioja an Alle: Highly recommended to have a video ready in case of demo-effect :) Babken Chugaszyan, Pablo Fab Lab León, Daniel Mateos, Oscar Diaz:☐☐ Adrián - Fab Lab León:☐

14:43:56 Von Pablo Fab Lab León an Alle: Which will be the order of machine presentations? lab list or asia first?

14:46:14 Von Oscar Diaz an Alle: Our students wants to make a rotocasting machine but here is the thing... they want to upcycle an old machine for this but in experience would be less challenging to create one using new components VS upcycle a machine for this?

14:47:35 Von Jani Ylioja an Alle: Impossible to say which is harder Oscar Diaz:☐☐☐

14:47:35 Von Daniel Mateos an Alle: Our students want to build a machine whose design is already publicly available. What amount of redesign would be required to qualify for the assignment?

14:47:37 Von Oscar Diaz an Alle: Ok thanks

14:53:58 Von Pablo Fab Lab León an Alle: Welcome!!!

14:54:04 Von Adrián - Fab Lab León an Alle: ☐☐

14:54:05 Von Anith Ghalley an Alle: ♥

14:54:06 Von Nuria Robles | LEON an Alle: Welcome!!!

14:54:28 Von Claire: Lake Mac Libraries Fab Lab an Alle: ☐☐

14:58:13 Von Andrr - Fab Lab Reykjavik an Alle: im looking at the repo, looking for examples for output devices in 2018, and it links to

http://academy.cba.mit.edu/classes/output_devices/index.html... so I do not really have access to the fabacademy examples of 2018.. or am i misunderstanding?

14:58:47 Von Andrr - Fab Lab Reykjavik an Alle: youre muted

14:59:43 Von Nicolas De Coster an Alle: didn't get where to find the F1 ultra pcb FR1 parameters on production page

15:00:03 Von Neil an Alle: https://academy.cba.mit.edu/classes/electronics_production/galvo.jpg

15:00:10 Von Nicolas De Coster an Alle: ok :) thanks for the link

15:00:14 Von Nicolas De Coster an Alle: thank you

15:00:47 Von Nicolas De Coster an Alle: making holes is ok?

15:02:23 Von Pablo Fab Lab León an Alle: Fab Lab in the Red Sox stadium XD Peter Perez - Moonlighter Fablab/Belen:[]

15:03:10 Von Adrián - Fab Lab León an Alle: It's a trap hehe

15:03:45 Von Rico Kanthatham an Alle: Dry run for Final Project

15:04:25 Von Patrick-waag an Alle: Replying to "It's a trap hehe": itsatrap.jpg

15:05:21 Von jakob an Alle: Sorry for the question, I had audio problems:

Is the idea to do these tasks within the midterm break? Will the meeting with the global instructor take place at the end of the break or at its beginning?

15:05:49 Von jakob an Alle: Replying to "Sorry for the question, I had audio problems: Is...": alright, thanks!

15:06:56 Von Forrest O. an Alle: woo project management lets goooooo jakob, Claire: Lake Mac Libraries Fab Lab:[]

15:09:27 Von Patrick-waag an Alle: f58c42d84ab9a393635fa2e391f994e1.jpg Forrest O., Peter Perez - Moonlighter Fablab/Belen, Jani Ylioja, Pablo Fab Lab León, Adrián - Fab Lab León:[]

15:10:38 Von Fab Lab BCN an Alle: Ed Woodhouse here

15:12:56 Von Rico Kanthatham an Alle: push your button!

15:12:59 Von Rico Kanthatham an Alle: 2025-04-09 22_12_17-FMCU.jpg

15:13:24 Von Patrick-waag an Alle: Replying to "2025-04-09 22_12_17-FMCU.jpg": the two awards XD

15:13:42 Von Marius Araújo an Alle: Replying to "2025-04-09 22_12_17-FMCU.jpg": Refresh ☐

15:15:06 Von Rico Kanthatham an Alle: Thank you in advance Lei-Feng!

15:16:01 Von Neil an Alle: <https://makezine.com/article/uncategorized/the-band-began-to-play-the-history-and-future-of-fab-labs/>

15:16:25 Von Claire: Lake Mac Libraries Fab Lab an Alle: Replying to "2025-04-09 22_12_17-FMCU.jpg": Pushed :)

15:16:45 Von Forrest O. an Alle: https://fabacademy.org/2025/labs/chaihuo/students/lei-feng/en/about/about_en "We are like slime molds, constantly expanding our footprint outward with Shenzhen as the center." awesome. Patrick-waag:☐ Rico Kanthatham, Adrián - Fab Lab León:☐

15:17:55 Von Rico Kanthatham an Alle: Replying to "2025-04-09 22_12_17-FMCU.jpg": why am i not seeing you guys?

15:19:26 Von Forrest O. an Alle: Most beautiful dev board nomination.

15:19:28 Von Forrest O. an Alle: Screenshot2025_04_09_161915.jpg

15:19:41 Von Patrick-waag an Alle: Replying to "2025-04-09 22_12_17-FMCU.jpg": can you give me a doc on how to do it ? Seems like my fablab does not have one

15:19:46 Von Rico Kanthatham an Alle: Replying to "Screenshot2025_04_09_161915.jpg": Nice to see even Seeed doesn't use fancy sockets for the Xiao!

15:20:52 Von Milliam an Alle: Replying to "2025-04-09 22_12_17-FMCU.jpg": <https://fmcu.fablabs.io/>

15:21:03 Von Milliam an Alle: Replying to "2025-04-09 22_12_17-FMCU.jpg": <https://pub.fabcloud.io/project/bootcamp-2023/fmcu/> Patrick-waag:☐

15:21:17 Von Tom an Alle: We are starting to include that the AI was "thinking" with the prompt

15:22:58 Von Forrest O. an Alle: I also provided the complete Markdown document from Week 10's individual assignment and the Week 11 course outline link (to help the AI understand the course and assignment requirements) as background reference material.

15:24:14 Von Forrest O. an Alle: Replying to "I also provided the complete Markdown document fro...": I've found this nice, in my code editor with my documentation site, I can put any of those docs into Claude's context.

15:27:07 Von Patrick-waag an Alle: here comes nda x) Rico Kanthatham, Dylan Heneck, Luciana Asinari:☐

15:30:33 Von Dylan Heneck an Alle: Definitely the most complicated conversation I've ever listened to. Adrián - Fab Lab León, Doaa El-Bess, Garrett Nelson, Patrick-waag, Luciana Asinari:☐☐ Forrest O.:☐☐

15:31:37 Von Forrest O. an Alle: Field trip. <https://www.seeedstudio.com/chaihuo-makerspace>

15:32:10 Von Garrett Nelson an Alle: Thank you Lei-Feng, it's very interesting to hear what you are doing. Lei-Feng:♥

15:36:35 Von ferdi an Alle: Has anybody tried this: <https://www.media.mit.edu/projects/e-lig/overview/> ? Adrián - Fab Lab León:♥ Patrick-waag:☐☐

15:37:53 Von Adrián - Fab Lab León an Alle: Replying to "Has anybody tried this: <https://www.media.mit.edu/...>": Awesome

15:38:44 Von henk an Alle: \$10 is my favorite

15:39:02 Von Jani Ylioja an Alle: There is logic analyzer made with esp32 :) Adrián - Fab Lab León:♥

15:41:34 Von Rico Kanthatham an Alle: https://github.com/thelastoutpostworkshop/gpio_viewer
ESP32 GPIO Viewer

15:42:06 Von Nicolas De Coster an Alle: also with rp2040

15:42:13 Von Nicolas De Coster an Alle: <https://www.instructables.com/Raspberry-Pi-Pico-200Khz-Digital-Oscilloscope/>

15:43:05 Von Jani Ylioja an Alle: https://github.com/ok-home/logic_analyzer

15:43:21 Von Nicolas De Coster an Alle: open logic + pocket PD delivery = our next pocket lab <3
Adrián - Fab Lab León:♥

15:45:26 Von Adrián - Fab Lab León an Alle: Replying to "open logic + pocket PD delivery = our next pocket ...": @Nicolas De Coster Everything you need to survive hehe, I would add it to the 72-hour kit hehe.

15:45:46 Von saheen palayi an Alle: Replying to "2025-04-09 22_12_17-FMCU.jpg": @Rico Kanthatham I just joined and pressed the button, waiting for the reset Rico Kanthatham:☐☐

15:45:49 Von Nicolas De Coster an Alle: there is one running in Andalusia I think

15:46:18 Von jakob an Alle: <https://cba.mit.edu/docs/theses/06.08.Sun.pdf>

15:46:27 Von Nicolas De Coster an Alle: The PS10 Solar Power Plant

15:46:46 Von Nicolas De Coster an Alle: Image 2025-04-09 at 154640.png

15:48:07 Von Neil an Alle: <https://aprubio.com/2025/01/13/metallic-kusudama/>

15:57:19 Von Adrián - Fab Lab León an Alle: Document as you go: <https://youtu.be/KSs416dsgvY>
F.A.B. Pablo Fab Lab León: Rico Kanthatham, Jani Ylioja, Shoko K, Luis Díaz-Faes - A Industriosa:

15:57:51 Von Daniel Osika an Alle: might be useful for the previous project SUN FACTORY
<https://distributeddesign.eu/talent/sun-factory/> Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:

15:59:30 Von Adrián - Fab Lab León an Alle: Manzi, here you can find documentation about using a Logic Analyzer: <https://fabacademy.org/2020/labs/leon/students/adrian-torres/week06.html#logic>
Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab, Lars Mattern - HRW Fablab, Lei-Feng:♥ Pablo Fab Lab León, Mkhitar Evoyan:

16:02:55 Von Adrián - Fab Lab León an Alle: <https://fabman.io/>

16:03:02 Von ferdi an Alle: <https://docs.fab-access.org/shelves/fabaccess>

16:03:20 Von Patrick-waag an Alle: Replying to "<https://fabman.io/>": we use fabman too Adrián - Fab Lab León:♥

16:03:25 Von Pablo Fab Lab León an Alle:
<https://fabacademy.org/2023/labs/kitakagaya/students/hiroe-takeda/final-project/final-project/>
Adrián - Fab Lab León:♥ Milliam:

16:03:28 Von Adrián - Fab Lab León an Alle: Hiroe

16:03:31 Von Pablo Fab Lab León an Alle: Hiroe!!

16:03:31 Von Rico Kanthatham an Alle: hiroe

16:03:33 Von Rico Kanthatham an Alle: takeda

16:04:45 Von Rico Kanthatham an Alle: This project is endorsed by Global Open Time. Adrián - Fab Lab León: Milliam:

16:05:27 Von Pablo Fab Lab León an Alle: Super Hiroe!! Hiroe Takeda:

16:07:59 Von Adrián - Fab Lab León an Alle: Go Shoko!! Shoko K:♥

16:08:07 Von Rico Kanthatham an Alle: go Shoko!!! Get 10 points! saheen palayi, Shoko K:

16:08:07 Von Milliam an Alle: Ayyy~~~ Shoko!!! Shoko K:

16:08:14 Von Maki Laura TANAKA an Alle: Go Shoko!!! Shoko K:

16:08:28 Von Hiroe Takeda an Alle: Go Shoko!! Shoko K:♥

16:08:52 Von Superfablab Kochi an Alle: Go Shokooo Shoko K:♥

16:09:03 Von Milliam an Alle: Replying to "go Shoko!!! Get 10 points!": Hey we get to see up to her mouth this time. More than half of her face Rico Kanthatham, saheen palayi, Tshering Dorji, Pablo Fab Lab León, Shoko K:👍👍 Adrián - Fab Lab León:👍👍

16:09:56 Von saheen palayi an Alle: Replying to "go Shoko!!! Get 10 points!": I always tell that her in the review 👍👍 Shoko K:👍👍

16:12:26 Von Adrián - Fab Lab León an Alle: Step response Milliam:👍👍 Shoko K:👍👍

16:13:55 Von Rico Kanthatham an Alle: Replying to "Step response": she did that in INput week Adrián - Fab Lab León:♥

16:15:42 Von Jeremy Losaw an Alle: very cool project @Shoko K Shoko K:👍👍 Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:👍👍

16:16:07 Von Adrián - Fab Lab León an Alle: Great work Shoko!! Shoko K:👍👍

16:21:54 Von Camila Luna an Alle: Real-time 3D cube with Bluetooth Low Energy (BLE) communication, XIAO ESP32S3 and XIAO nrf52840 Milliam, Pablo Fab Lab León, saheen palayi:👍👍 henk, Adrián - Fab Lab León:👍👍

16:21:57 Von Camila Luna an Alle: Screenshot 2025-04-09 at 4.12.47 p.m..png Mkhitar Evoyan:👍👍 Delia Millán | Spain| 2022, Adrián - Fab Lab León:👍👍

16:22:07 Von David Wilson an Alle: On lab management - as part of an undergraduate project in Spring 24, student did a high level review on systems / features. Not updated since, but may be helpful for some.
https://docs.google.com/spreadsheets/d/1N4Ix1wqrG5gkmUFYwqRD_LXIfJljgZeaGc_ROxPcACc/edit?usp=sharing

16:26:18 Von saheen palayi an Alle: https://github.com/saheenpalayi/Xiao_RP2040_UWB-BU01_Anchor-Node

sharing just the board design

(doc in progress)

design inspired from Makerbase's commercial board

16:26:46 Von Patrick-waag an Alle: Replying to "Real-time 3D cube with Bluetooth Low Energy (BLE) ...": I did Bluetooth Mesh

16:26:47 Von Milliam an Alle: Replying to "https://github.com/saheenpalayi/Xiao_RP2040_UWB-BU...": <https://youtu.be/uj68drAjlRo>

16:26:56 Von Milliam an Alle: Replying to "https://github.com/saheenpalayi/Xiao_RP2040_UWB-BU...": Example with the UWB module

16:27:36 Von Rico Kanthatham an Alle: we think it would be a lovely feature for FMCU!! Mkhitar Evoyan, Adrián - Fab Lab León, Doaa El-Bess, saheen palayi, Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab, Jesal Mehta, Svavar Konradsson Fab Lab Isafjordur:♥ Milliam, Patrick-waag:☐ Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:☐

16:28:10 Von Patrick-waag an Alle: Replying to "On lab management - as part of an undergraduate pr...": I can help for FabMan

16:28:18 Von Garrett Nelson an Alle: That's funny

16:28:28 Von Mkhitar Evoyan an Alle: Its Amazing!!

16:29:03 Von saheen palayi an Alle: Replying to "https://github.com/saheenpalayi/Xiao_RP2040_UWB-BU...": @Milliam yea Saw this, saving for interfacing week lets see

16:29:13 Von Pablo Fab Lab León an Alle: ☐

16:29:16 Von Terence Fagan an Alle: Replying to "https://github.com/saheenpalayi/Xiao_RP2040_UWB-BU...": Great Job! saheen palayi:☐

16:29:20 Von Milliam an Alle: Replying to "https://github.com/saheenpalayi/Xiao_RP2040_UWB-BU...": It works really well.

16:29:57 Von Milliam an Alle: Replying to "we think it would be a lovely feature for FMCU!!": We could have blinking lights on the FMCU globe sites Adrián - Fab Lab León:☐

16:30:06 Von Forrest O. an Alle: I2C looks like morse code when you zoom in with the logic analyzer.

16:30:18 Von Garrett Nelson an Alle: My understanding wasn't that the sending was the problem, but the receiving. As someone has to hear it and interpret it.

16:30:40 Von saheen palayi an Alle: You need to have a license for that

armature Radio (HAM)

16:30:43 Von Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab an Alle: amazing

16:30:56 Von Rico Kanthatham an Alle: Replying to "we think it would be a lovely feature for FMCU!!": update the FMCU button module with a morse code tapper, LED and buzzer Claire: Lake Mac Libraries Fab Lab:☐ Marius Araújo:☐

16:31:23 Von Milliam an Alle: Replying to "we think it would be a lovely feature for FMCU!!": DO IT!

16:31:42 Von Rico Kanthatham an Alle: Replying to "we think it would be a lovely feature for FMCU!!": done!

16:31:57 Von Milliam an Alle: Replying to "we think it would be a lovely feature for FMCU!!": Documentation~? Patrick-waag, Adrián - Fab Lab León, Claire: Lake Mac Libraries Fab Lab, Hiroe Takeda:[] Rico Kanthatham:[]

16:32:01 Von Matthias an Alle: <https://www.morserino.info/>

16:32:16 Von henk an Alle: Replying to "Real-time 3D cube with Bluetooth Low Energy (BLE) ...": so show it'

16:32:17 Von Jeremy Losaw an Alle: mega

16:32:30 Von take an Alle: Replying to "Real-time 3D cube with Bluetooth Low Energy (BLE) ...": beautiful board!

16:32:48 Von saheen palayi an Alle: Replying to "we think it would be a lovely feature for FMCU!!": @Rico Kanthatham

16:32:58 Von saheen palayi an Alle: Replying to "we think it would be a lovely feature for FMCU!!": {45F42187-EDF3-4945-B869-8A5CE930622C}.png Adrián - Fab Lab León, Milliam, Rico Kanthatham, Camila Luna, Hiroe Takeda, Claire: Lake Mac Libraries Fab Lab, Mkhitar Evoyan, FabLab ESAN:[]

16:33:29 Von Matthias an Alle: <https://morserinoshop.site44.com/availability.html>

16:35:25 Von Superfablab Kochi an Alle: Replying to "we think it would be a lovely feature for FMCU!!": "Document that as well" - Saheen

16:35:46 Von Superfablab Kochi an Alle: Replying to "we think it would be a lovely feature for FMCU!!": IMG20250409200346.jpg Rico Kanthatham:[]

16:40:26 Von Rico Kanthatham an Alle: --.

@Superfablab Kochi

16:46:24 Von Superfablab Kochi an Alle: Replying to ".... .. --. @Superfablab Kochi": --.

16:46:46 Von Patrick-waag an Alle: is it normal that it is just ~minutes and no actual minutes ?

16:46:48 Von Patrick-waag an Alle: {C426B063-9775-4F33-9C42-12C8BB0E9EC2}.png

16:47:20 Von saheen palayi an Alle: Replying to ".... .. --. @Superfablab Kochi": @Rico Kanthatham --. / -. .. -. ---

16:48:04 Von Forrest O. an Alle: Replying to "{C426B063-9775-4F33-9C42-12C8BB0E9EC2}.png": "approximately" tilde

16:48:34 Von Patrick-waag an Alle: Replying to "{C426B063-9775-4F33-9C42-12C8BB0E9EC2}.png": ah thx

16:51:26 Von Rico Kanthatham an Alle: @ChaiHuo Makerspace Matthew Taobao for machine parts? Superfablab Kochi:[]

16:54:54 Von Patrick-waag an Alle: for gear creation
<https://geargenerator.com/#200,200,100,6,1,3,0,4,1,8,2,4,27,-90,0,0,0,0,0,16,4,4,27,-60,0,0,0,0,1,1,12,1,12,20,-60,0,0,0,0,2,0,60,5,12,20,0,1,0,0,0,0,3,-515> Rico Kanthatham, Lei Feng:[]

16:55:58 Von Rico Kanthatham an Alle: For Linkage design <https://blog.ectorsquid.com/download-linkage/>

16:56:51 Von Dylan Heneck an Alle: Screenshot2025_04_09_165644.jpg Camila Luna, Patrick-waag, Enterprise fablab, Oscar, Rico Kanthatham, Adrián - Fab Lab León, Doaa El-Bess, Mkhitar Evoyan, Jesal Mehta, Milliam, Pablo Fab Lab León, Geovanny Fortín:[]

16:57:34 Von Patrick-waag an Alle: Replying to "Screenshot2025_04_09_165644.jpg": you are savage with Niels drawings XD Dylan Heneck:[]

16:57:55 Von Patrick-waag an Alle: Replying to "Screenshot2025_04_09_165644.jpg": {7F786513-6917-40AB-9CB5-3FCCDB22B936}.png Camila Luna, Adrián - Fab Lab León, Norella Coronell, Dylan Heneck:[]

16:58:02 Von henk an Alle: Replying to "@ChaiHuo Makerspace Matthew Taobao for machine par...": we should make a vendor list thats not affected by Trump's trade war Patrick-waag, Marius Araújo:[]

16:58:03 Von Dylan Heneck an Alle: Replying to "Screenshot2025_04_09_165644.jpg": never forget

17:02:10 Von Patrick-waag an Alle: do not forget the basic engineering rules

17:02:15 Von Patrick-waag an Alle: Replying to "do not forget the basic engineering rules": wd40-flowchart.jpg Dylan Heneck, Nicolas De Coster:[] Camila Luna, Doaa El-Bess, Marius Araújo:[]

17:02:48 Von Sam an Alle: Replying to "do not forget the basic engineering rules": If it aint broke don't fix it Patrick-waag, Dylan Heneck:[] Camila Luna:[]

17:03:47 Von Garrett Nelson an Alle: 23 minute video on different types of washers and their uses: <https://www.youtube.com/watch?v=F4EvMVpx1Pw>

17:04:37 Von Patrick-waag an Alle: Replying to "23 minute video on different types of washers and ...": how can you do a 20min video on such a simple thing ?!

17:05:31 Von Garrett Nelson an Alle: Replying to "23 minute video on different types of washers and ...": Cause it ain't that simple. [] Pérez De La Mora Daniel Alejandro:[]

17:07:55 Von henk an Alle: Replying to "do not forget the basic engineering rules": gaffer.jpeg
Patrick-waag:☐

17:08:33 Von Rico Kanthatham an Alle: Replying to "do not forget the basic engineering rules": "if you can't fix it with duct tape...you aren't using enough duct tape!" Patrick-waag, Marius Araújo:☐
Geovanny Fortín, Evert , Camila Luna, Tshering Dorji JNWSFL:☐

17:15:28 Von Jani Ylioja an Alle: Good explanation of cycloidal gear: <https://www.tec-science.com/mechanical-power-transmission/cycloidal-gear/geometry-of-cycloidal-gears/> Patrick-waag, Garrett Nelson:☐ Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab:☐ Rico Kanthatham:☐

17:22:01 Von jakob an Alle: is a thrust a type of linear bearing?

17:23:15 Von jakob an Alle: ah alright thanks

17:26:43 Von saheen palayi an Alle: V groves bearings uses in Bambu lab A1 Series Printers (Y axis) https://www.vertex3d.co/shop/fac027-a1-mini-y-axis-track-bearing-2284#attribute_values=30,749,1071

17:27:58 Von Svavar Konradsson Fab Lab Isafjordur an Alle: A way to 3D print cable carriers onto mesh: https://fab.cba.mit.edu/classes/865.24/people/svavar/components/cable_carrier/ Andrr - Fab Lab Reykjavik, Doaa El-Bess, Marius Araújo, take, Frosti Gíslason - Iceland- Vestmannaeyjar - Fab Lab, saheen palayi:♥ Patrick-waag:☐

17:28:03 Von saheen palayi an Alle: Replying to "V groves bearings uses in Bambu lab A1 Series Prin...": https://wiki.bambulab.com/a1/maintenance/y-axis/y_assembly.jpg

17:41:04 Von saheen palayi an Alle: Replying to "A way to 3D print cable carriers onto mesh: https:...": drag chain ☐ Flex chain ☐

17:42:41 Von ferdi an Alle: Is that true? Ted Hall, the founder and chairman of ShopBot Tools, has a background in neuroscience. He served as a professor and research scientist at Duke University. Marius Araújo:☐

17:43:12 Von ferdi an Alle: Thank you!

17:43:25 Von Garrett Nelson an Alle: That explains so much about shopbot to me.

17:43:30 Von jakob an Alle: would you use MPC for something as "simple" as a motor driving a linear mechanism (like something sliding a rod)?

i could imagine that a PID controller is a bit "easier" to set up since one needs a model of the machine...

What would you suggest for "daily practice"?

17:44:38 Von Enterprise fablab an Alle: Is MPC the same as input shaping?

17:45:57 Von Garrett Nelson an Alle: Would MPC allow easier sensor fusion?

17:46:33 Von Hiroe Takeda an Alle: Great idea / Machine project / Fab Academy 2023 Sausage cutting machine TEA MANATOR Easter Egg Shooter Adrián - Fab Lab León, Andrr - Fab Lab Reykjavik, Svavar Konradsson Fab Lab Isafjordur, olof, saheen palayi:♥ Shoko K:☐☐

17:48:10 Von jakob an Alle: Replying to "would you use MPC for something as "simple" as a m...": thank you!

@Neil which algorithms/models would you suggest for identifying a model?

I know for basic stuff there are ARMAX, Box-Jenkins etc. and for non-linear systems one might use LSTMs

But i have no practical experience with that so i would appreciate some hints what is state of industry :)

17:51:16 Von Adrián - Fab Lab León an Alle: UGS

17:51:26 Von saheen palayi an Alle: CNC JS

17:51:31 Von Jani Ylioja an Alle: kirimoto Adrián - Fab Lab León:♥

17:51:41 Von Jani Ylioja an Alle: grblgru

17:56:30 Von saheen palayi an Alle: A Machine project from Kerala Fabacademy 2025 using Urumbu https://fabacademy.org/2024/labs/kochi/machine_week/Cut-Urumbu/

cut - Urumbu (fire ants)

Board used :- https://github.com/saheenpalayi/Urumbu_Project-SMD11C_DRV8825

Hiroe Takeda:♥

Adrián - Fab Lab León:☐☐

18:00:23 Von Adrián - Fab Lab León an Alle: Remember, Global Open Time returns this Saturday, 10:00 AM Boston Time. More info: <https://chat.academany.org/fabacademy-2025/channels/global-open-time> Camila Luna, saheen palayi:♥

18:00:26 Von saheen palayi an Alle: To the concept of the Fab Labs making Machines for Fablabs

sharing an on going development from SuperFabalab Kochi

<https://www.youtube.com/watch?v=gib4u8rVf-w>

this is a machine with 6 multi color pen support that plot pictures and drawings in color

18:01:36 Von saheen palayi an Alle: Replying to "To the concept of the Fab Labs making Machines for...":

The objective of this project is to design a beginner-level, intuitive and safe CNC machine, emphasizing STEAM principles and ease of use. Tailored for schools, it aims to engage students and provide an accessible entry into digital fabrication, with teachers offering support.

the future to the machine is adding a drag knife

18:01:41 Von Pablo Fab Lab León an Alle: Tell this to Kerala...no spectacular machine ☹️ saheen palayi:☹️ Jarni Rai Castillo Yarlequé, Adrián - Fab Lab León, Patrick-waag, Superfablab Kochi, Rico Kanthatham:☹️

18:02:24 Von Jarni Rai Castillo Yarlequé an Alle: Replying to "To the concept of the Fab Labs making Machines for...": Right

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