

DPRG RBNV Chat Record – April 2, 2024

Carl Ott

7:33 PM

<https://www.nasa.gov/science-research/five-tips-from-nasa-for-photographing-a-total-solar-eclipse/>

<https://www.silive.com/news/2024/04/this-solar-eclipse-interactive-map-shows-the-path-and-times-of-totality-in-ny-on-april-8.html>

<https://www.tomsguide.com/phones/i-failed-the-last-time-but-heres-how-i-plan-to-successfully-photograph-the-april-2024-solar-eclipse-with-my-phone>

Doug Dodgen

7:35 PM

I good YouTube video on equipment and settings for the eclipse <https://www.youtube.com/watch?v=iptPHYOOQtY>

Carl Ott

7:38 PM

American Astronomical Society <https://eclipse.aas.org/eye-safety/how-to-tell-if-viewers-are-safe>

Dallas Eclipse Crowds expected... <https://www.axios.com/local/dallas/2024/04/02/dallas-fort-worth-eclipse-traffic>

Doug Paradis

7:45 PM

AI Drone with Python course 50% discount today only: https://www.kickstarter.com/projects/cvweb/ai-drone-programming-with-python?ref=ksr_email_mktg_auto_user_watched_project_launched

Carl Ott

7:46 PM

~7:45pm - Mike W- update on odometry on his robot - fusing data with Time of Flight sensors also using ROS transforms / map to odometry - a trick you can use when you believe your odometry is drifting.

John K

7:47 PM

Pocket Solar Viewer

<https://www.thingiverse.com/thing:6515119>

Doug Paradis

7:48 PM

C to C++ course with \$100 off code: <https://beningo.mykajabi.com/offers/L4y8Fk3o/checkout> (code is :ER24WS100)

Jim F - CalgaryAB

7:50 PM

Hello from Calgary Alberta Canada



Carl Ott

7:51 PM

Mike W - showed a live demo - GOLD STAR - showed how his robot could traverse between 4 waypoints all day long, by pausing briefly at each waypoint so that the time-of-flight sensors and ROS transformer can recalibrate the odometry... This is in effect Mike's DIY SLAM algorithm...

Carl Ott

8:12 PM

~8:10PM - Doug described experiments with ESP Now / working with Jon H's open-source project. Can see lots of classes in the Python code, can see there defined but doesn't find the name of the piece of data he wants to manipulate...

doesn't see where classes are initiated (instantiated?) into an object - only sees references to "self."

Pat C

8:19 PM

I have an I2C device I found that may be interesting.

Carl Ott

8:21 PM

~8:20pm - Doug opened discussion on addressing multiple I2C devices on the same bus / how to get it to work where devices would normally have the same addresses...

Pat C

8:21 PM

Doug P just stole my thunder.

Doug Paradis

8:22 PM

I2C

mapper: https://www.adafruit.com/product/5914?utm_source=Adafruit+Products+Newsletter&utm_campaign=1eb117a282-EMAIL_CAMPAIGN_2024_04_02_04_19&utm_medium=email&utm_term=0_1eb117a282-%5BLIST_EMAIL_ID%5D

Jim F - CalgaryAB

8:23 PM

Pat talked to Thor and ask for more lightning and thunder.

Carl Ott

8:30 PM

~8:28pm - an ad-hoc update from Karim on efforts to fire up one of the large / capable surplus robots multiple club members bought last year...

Jim F - CalgaryAB

8:33 PM

ARCOS ? @ Karim

Ponder SomeMore

8:37 PM

yeah, ARCOS is used as a product name in the pioneer 3AT operations manual.

haven't found a detailed manual for that board.

ed mart

8:45 PM

Power wheels!

ed mart

8:46 PM

Power wheels kid toy

Carl Ott

8:47 PM

Here are some wheels for you Pat... <https://gizmodo.com/square-wheeled-bicycle-bike-pedal-tank-wheels-the-q-1850332349>

Mickey Dean

8:47 PM

ed, they can move a 21-inch gas push mower.

Carl Ott

8:48 PM

~8:47pm - Tom asked about experience with Neato Vacuum cleaner robots.

ed mart

8:48 PM

Chris Netter has worked with lidar.

Mickey Dean

8:48 PM

I eventually will try them on a electric push mower, but this is what I had spare

Carl Ott

8:56 PM

~8:56pm - Tom showed his "McGyverd" pizza box viewer for the solar eclipse in 2017.

Carl Ott

8:57 PM

~8:57pm - Doug D showed the 'leather armor' robot holder vest for his Robodog.

Carl Ott

8:59 PM

Doug - lots of how-to turn e-cigarettes into smoke

stacks... http://trainelectronics.com/Animation_Smoke/

<https://www.instructables.com/An-Inexpensive-Smoke-Fog-Generator/>

Mickey Dean

9:00 PM

she found the chest too

Carl Ott

9:00 PM

https://www.reddit.com/r/3Dprinting/comments/r4burf/the_3_best_and_safest_ways_to_add_smoke_mist_or/

Carl Ott

9:03 PM

~9:02- Paul shared a Facebook post of his poor robot dog falling & breaking its neck.

Ted Meyers

9:05 PM

The bionic dog - we can rebuild him.

Carl Ott

9:06 PM

~9:05pm - Paul B - raised discussion from the DPRG Discord channel - now there is a new / non-wheeled quick-trip contest for the upcoming Roborama competition.

Mickey Dean

9:09 PM

Paul, so does a drone count in YOUR class? <evil grin>

Jim F - CalgaryAB

9:09 PM

@ Karim "Unexpected Journey: There and Back Again"

Ponder SomeMore

9:10 PM

lol

Mickey Dean

9:12 PM

lol

Jim F - CalgaryAB

9:18 PM

I like @ Carl Ott's Hovercraft idea.

Carl Ott

9:20 PM

@jim I've wanted to build a hovercraft for years. However - in practice - that sticky problem of big momentum with no friction makes matters a little tricky, and probably not the most precise.

Carl Ott

9:21 PM

Hovercraft races... https://www.google.com/search?sca_esv=7b5d61ce588ede1b&sxsr=ACQVn0-5p_Sh932DX5jkv8KFVIB1b14qwg:1712110814913&q=hovercraft+races&tbm=vid&source=Inms&prmd=ivsnmbtz&sa=X&sqi=2&ved=2ahUKEwiYpcHn_aSFAXVr38kDHXKjA3oQ0pQJegQIDBAB&biw=979&bih=676&dpr=1.25

Ponder SomeMore

9:24 PM

auton line following hovercraft

https://www.youtube.com/watch?v=Lk7q8Lv_gJ4

Carl Ott

9:24 PM

~9:23pm - Mike asked about next month's DPRG meeting / with presentation on making PCBs.

Dallas Makerspace Invite <https://calendar.dallasmakerspace.org/events/view/21471>

Paul Bouchier

9:27

<https://www.youtube.com/watch?v=gCwibH1YeiY&t=455s>

Carl Ott

9:27 PM

Here's the prior presentation from Dallas

Makerspace <https://calendar.dallasmakerspace.org/events/view/21188>

Carl Ott

9:29 PM

~9:28pm - Doug P - showed results & key findings from his inventory last week of prior robot projects...

Pat C

9:35 PM

Is that a black star for presenting the line following code/images?

Jim F - CalgaryAB

9:35 PM

Doug, do you have the files for the laser cut?

Please share in discord.

Yes. Basic.

Going to makerspace tomorrow.

Pat C

9:37 PM

Are they made of hardboard? (wood)

Doug P.

9:37

Yes.

Jim F - CalgaryAB

9:37 PM

Are you doing Stream Punk Robotics?

Pat C

Pat C

9:38 PM

Not steam punk, just BIG!

Wood is easier than welding.

Jim F - CalgaryAB

9:39 PM

Thank You

.Doug P.

Ponder SomeMore

9:41 PM

so that's different from the 2016 club robot build:

<https://github.com/dprg/2016-Club-Robot-Mech>

Doug P.

9:42 PM

Yes