DPRG RBNV Chat Record – 11/16/21

Carl Ott
7:37 PM

endoscope https://www.banggood.com/3-in1-HD-Medical-In-Ear-Cleaning-Endoscope-Spoon-Small-Camera-Otoscope-Mouth-Nose-Otoscope-Tool-Ear-Picker-Ear-Wax-Removal-p-1860867.html?cur_warehouse=CN&ID=6288118&rmmds=search

Robots New Zealand
7:43 PM

Personal Robotics invite link: https://discord.gg/3t6qyPqU

Ted Meyers
7:46 PM

Small robot (t-shirt): https://www.teepublic.com/t-shirt/10156003-rick-and-morty-pass-the-butter-robot?feed_sku=10156003D1V&utm_source=google&utm_medium=cpc&utm_campaign=%5BG%5D+%5BG.USA%5D+%5BL.ENG%5D+%5BGEN%5D+%5BC.TShirts-Top3%5D+%5BPLA%5D&utm_id=notset&utm_content=Content_taxonomy&utm_term=%7Bkeyword%7D&ar_clx=yes&ar_channel=google&ar_campaign=71700000082181375&ar_adgroup=58700006976489868&ar_ad=PRODUCT_GROUP&ar_strategy=search&gclsrc=aw.ds&gclid=Cj0KCQiAys2MBhDOARIsAFf1D1ebkh3Pr5KR5auEVmU0v

Carl Ott
7:47 PM

more very small robots https://www.tomshardware.com/news/smallest-rp2040-robot
https://www.youtube.com/watch?v=V3Wj4TJgsYA

Carl Ott
7:51 PM

here's a video of the tiny robot in action - built on a Pimoroni Tiny2040
https://twitter.com/roboticbits/status/1458908563166932992

~7:47 - Ray showed updates on his riding mower bot- including a video driving around the yard…

Carl Ott
8:01 PM

~8:01 Dave Ackley -asking on consensus for Oak D - which is preferred - fixed focus or auto-focus

Robots New Zealand
8:02 PM

SparkFun smol boards: https://www.sparkfun.com/search/results?term=smol

Carl Ott
8:07 PM

Here's a link to a prior DPRG discussion where we discussed the Oak D Lite autofocus vs. fixed focus - should be around 9:17pm in the video https://youtu.be/hKO0dEtPUe0
also available here https://www.dprg.org/category/news/

Carl Ott
8:10 PM

this is the depth sensing camera we're chacint - the Oak-D-Lite
https://www.kickstarter.com/projects/opencv/opencv-ai-kit-oak-depth-camera-4k-cv-edge-object-detection

Carl Ott
8:17 PM

~8:16 - Paul gave a presentation on ROS Diagnostics - Where diagnostics are common on industrial robots, but may not be as common on hobby robots. But it is very easy to use ROS diagnostics. Reference his library here https://github.com/PaulBouchier/diag_demo

Ray
8:18 PM

https://www.aixiz.store/product-page/aixiz-89-line-generator-for-12x30mm-housing-ah-l89-9

Carl Ott
8:21 PM

Ray - thanks for sharing that AixiZ 89° Line Generator, which projects a laser line e.g. as you might find in a home construction level...

Carl Ott
8:27 PM

~9:26 - Paul started a demo code walkthrough of https://github.com/PaulBouchier/diag_demo

Harold Pulcher
8:59 PM

https://learn.adafruit.com/adafruit-eyelights-led-glasses-and-driver

Carl Ott
9:03 PM

~9:00 - Harold showed 'adafruit eyelights eyeglasses - amusing 'RGB LED sign" glasses

Ray
9:07 PM

Dave - transaxle link $269 https://www.staton-inc.com/store/index.php?p=product&id=181

Harold Pulcher
9:14 PM

event sign up

https://www.eventbrite.com/e/codelaunch-dfw-startup-expo-seed-accelerator-competition-in-frisco-tx-tickets-170170880685

promo code: CLX-VIP-IMP

Carl Ott
9:16 PM

~9:13- David Anderson - showed a dashboard red/green from real world application

Carl Ott
9:21 PM

Then - David revisited prior analysis that indicated his robot was over-rotating when driving out and back... Reviewed and compared different data sets - found that wasn't over-rotating - In fact, had been hitting the brakes so hard that the wheels rotated backwards - ie. the wheels were sliding on the floor...

Carl Ott
9:23 PM

slowed down the acceleration rates, repeated the test to verify...

Ray
9:23 PM

so a Tokyo drift maneuver.

Carl Ott
9:34 PM

~9:33 - Murray gave an update on the motor controller project... RP2040 PIO can handle quadrature encoder rate near 2 MHz - so plenty of overhead...

Ray
9:35 PM

with the encoders Dave A. gave me I get 130000 ticks/second

Carl Ott
9:39 PM

~9:37 - Pat - playing with Platform IO / VS Code and GitHub.

ed mart
9:48 PM

How many Tim Horton's