DPRG RBNV Chat Record – 5/25/2021

Note: You is Carl Ott

David Anderson

7:57 PM

Ted, that of which Doug was speaking: http://www.geology.smu.edu/~dpa-www/robo/challenge/math.html

Ted Meyers

7:59 PM

David -- looks like good stuff, thx!

Chris N

8:04 PM

ublox, right?

You

8:05 PM

https://www.u-blox.com/en/product/neo-m8-series

You

8:17 PM

several DPRG Clips recordings related to LiDAR presentations https://youtu.be/eVzcH1Gzw58

https://youtu.be/Mn-_0s5Rb1M

https://youtu.be/BltCm7i8VGI

You

8:18 PM

https://youtu.be/TYfflECL3eY

https://youtu.be/kn5-Qzhu1Ig

doug paradis

8:19 PM

Here is the DPRG presentation link for the VL53Lx sensors - https://www.dprg.org/lidar-overview-monthly-meeting-april-14th-2018/

Harold Pulcher

8:21 PM

last weeks recording... https://1drv.ms/v/s!Ar11iJd-sF4Fsuh838IrNs9xdsXBzw?e=twmdmO

You

8:21 PM

Thanks Harold!

Harold Pulcher

8:31 PM

sorry it took so long, but the onedrive on this machine wasn't sync up to the cloud like I expected.

You

8:34 PM

Harold - All good ;-)

You

8:39 PM

we're discussing a Pololu 3056 https://www.pololu.com/product/3056

Motor can provide more torque than the gearbox can support

You

8:43 PM

Example of a "Servo Saver" https://www.ebay.com/itm/323867545518?chn=ps&mkevt=1&mkcid=28

Looks like some servo savers are available in Aluminum https://sierrahobbies.com/product/racers-edge-slash-4wd-aluminum-servo-saver-red-1846r/?utm_term=woocommerce_gpf_142189

Robots New Zealand

8:54 PM

In Pursuit of the Club Robot https://robots.org.nz/2021/05/26/in-pursuit-of-the-club-robot/

You

9:24 PM

Mentioned earlier - the OpenMV H7 Plus camera and it's related shields and other parts. https://openmv.io/collections/products

From the web site: The OpenMV project is about creating low-cost, extensible, Python powered, machine vision modules and aims at becoming the “Arduino of Machine Vision“. Our goal is to bring machine vision algorithms closer to makers and hobbyists. We’ve done the difficult and time-consuming algorithm work for you leaving more time for your creativity! The OpenMV Cam is like an super powerful Arduino with a camera on board that you program in Python. We make it easy to run machine visions alg

The OpenMV Cam is like an super powerful Arduino with a camera on board that you program in Python. We make it easy to run machine visions algorithms on what the OpenMV Cam sees so you can track colors, detect faces, and more in seconds and then control I/O pins in the real-world.\

You

9:35 PM

Cute little minimal build found by John K https://www.instructables.com/DIY-Robotics-Plattform-Using-a-Smartphone-And-Pape/

John Kuhlenschmidt

9:39 PM

https://sienci.com/dmx-longmill/welcome/

You

9:46 PM

Harold - thanks for the reminder - Design 2 Part show - lots of design & Contract Manufacturing vendors - https://www.d2p.com/2021-grapevine-manufacturing-trade-show/

doug paradis

9:46 PM

https://www.d2p.com/2021-grapevine-manufacturing-trade-show/

ed mart

9:47 PM

Eastec westec etc in oct nov by SME

You

9:54 PM

Ed - thanks for the reference- another manufacturing trade show - with events in Houston, West Springfield, MA, Greenville, SC and Long Beach, CA

You

9:58 PM

https://easteconline.com/about/about-eastec/

You

10:02 PM

Here's a more robust design for a 2 servo pan-tilt mechanism - this one only supports the weight of the tilt servo, not the weight of both pan and tilt onto the pan servo. https://www.amazon.com/Servo-Mount-Bracket-MG996R-Steering/dp/B07PQ12TXS/ref=asc_df_B07PQ12TXS/?tag=hyprod-20&linkCode=df0&hvadid=343191214486&hvpos=&hvnetw=g&hvrand=11746123839887838809&hvpone

=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9026796&hvtargid=pla-737353487171&psc=1&tag=&ref=&adgrpid=64450094290&hvpone=&h

You

10:03 PM

there's a close-up here showing the mechanics of that pan-tilt bracket https://sites.google.com/a/leatherbag-son.tk/a209/Hot-New/Tarot-DOIT-Servo-Bracket-Short-U-Type-Frame-Aluminum-Multi-function-Servo-Bracket-Screw-Servo-Holder

You
10:22 PM
For the record - David A proposed that we should find a way to formally recognize / elevate / celebrate participants who can turn on their robot and demonstrate something each week. Concept like a gold leafed plaque - or in Google Meet - having a way for the presenter to add a Gold Star or Badge on participants who achieve a working demo each week... Open invitation to participants - Let's rif on how to implement that - how can we give such recognition and make it sticky?

ed mart

10:26 PM

A Robot badge like cub scouts

You

10:36 PM

About new battery technologies - check this one out - https://www.pv-magazine.com/2021/04/29/graphene-aluminum-ion-batteries-with-ultra-fast-charging/