DPRG RBNV Chat Record - 4/20/2021

Carl Ott
7:53 PM
Upcoming Events
21 April
- Hackster Meetup - "BlindVia" PCB guy – About Designing Circuit Cards Learn about basics of PWB design, assembly, and 3d printing prototyping. General education of the manufacturing process will be used to demonstrate things to consider, and how decisions can be made during design that make it easier to build. https://www.meetup.com/Hackster-DFW/events/277642043/
8 May
- ExoMy – Mars Rover Model Special Guest Presenters from Germany & Switzerland – Miro & Max https://www.meetup.com/Build-More-Robots-with-DPRG/events/277646600/ Learn about their ExoMy project https://esa-prl.github.io/ExoMy/ The ExoMy is a programmable $600 Mars rover you can build yourself | Engadget (https://www.engadget.com/esa-exomy-rover-221008299.html)
12 June
- How to do navigation w/o making a map David Anderson Updated from compiled & published in the Seattle Robotics Society some years ago
10 July
Seattle Robotics Society – Robothon https://robothon.org/
21 August
 Outdoor Rover Competition Baseline "RoboColumbus-Plus" See https://www.dprg.org/contest-rules/ https://www.dprg.org/wp-content/uploads/2018/09/robocolumbusplus-20150726.pdf

Carl Ott
8:05 PM
Murray - looking into publishing own libraries on https://pypi.org/ - very cool!

doug paradis
8:12 PM
https://www.vexrobotics.com/motors.html
2-wire 393 motor

Harold Pulcher
8:24 PM
https://www.adafruit.com/product/2717

Kevin Shin
8:50 PM
Thank for the great discussion! See u next week!

Carl Ott
8:51 PM
ESP32-Cam -> looks pretty interesting $ 10 per might be a useful part for telepresence or robots with multiple cameras examples of running a subset of OpenCV on it, and even using it as a web-server https://www.amazon.com/ESP32-CAM-Bluetooth-Camera-Module-Development/dp/B07S5PVZKV/ref=sr_1_4?dchild=1&keywords=ESP32-

CAM&qid=1618958966&s=electronics&sr=1-4 https://randomnerdtutorials.com/projects-esp32-cam/ https://randomnerdtutorials.com/esp32-cam-opencv-js-color-detection-tracki

Carl Ott
8:53 PM

HoverSim https://youtu.be/tN_-D6gYl6Q

Asteroids mode

Harold Pulcher
8:54 PM

 Doug Dodgen, this guys uses belts on alll his motors: https://www.youtube.com/watch?v=q1u_cC-5Sac

Carl Ott
9:03 PM

as noted tonight - from David's post to d-list Interesting approach: https://spectrum.ieee.org/automaton/robotics/industrial-robots/no-human-can-match-this-highspeed-boxunloading-robot-named-after-a-pickle Not going for full autonomy, assumes some human intervention to handle edge cases.

Carl Ott
9:15 PM

here's an article with the molten mess that was once a Tesla model S https://www.autoblog.com/2021/04/20/tesla-crash-victims/

and another https://abc13.com/investigators-to-question-tesla-after-crash-that-killed-2/10528089/

Carl Ott
10:06 PM

https://www.adafruit.com/product/400

Breakaway header is like the duct tape of electronics, and this header is one better with extra long pins on both sides. This makes it great for connecting things together that have two sockets - especially solderless breadboards. We also use these with our female-female socket jumpers to create female-male and male-male jumpers!

Carl Ott
10:08 PM

you can find them in bulk on Amazon https://www.amazon.com/DIKAVS-Break-Headers-Header-Connector/dp/B076F64ZCJ/ref=sr_1_5?dchild=1&keywords=breakaway+headers&qid=1618974481&sr=8-5

Attachments area
Preview YouTube video HoverSim Asteroids Mode 1st Runs

Preview YouTube video Building a ROS Robot for Mapping and Navigation #1