

DPRG RBNV Chat Record – November 15, 2022

Carl Ott

7:50 PM

~7:46pm - Pat - feedback to contest. And a question - for Arduino & Timers. Using an Arduino Uno to control motor timer / H-Bridges. Typically looks at elapsed times. But is looking to use a timed interrupt at 10 ms.

Carl Ott

7:52 PM

At start of meeting - we showed a link to the video for the 12 Nov 2022 RoboColumbus.

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

You

8:05 PM

an example mini-mega board:

<https://www.ebay.com/itm/194840364480?hash=item2d5d6405c0:g:BFAAAOSwVNViDRyR&amdata=enc%3AAQAHAAAA4Ja9LqCMcdcqZrqJ%2FN9saUDUcUHKvTJHu3aGGxZiR%2BTKpsfMF0TmR%2Fu0Tzu3VFfiRz2KQGkNNpqy7Ni2XlqCqRS3d%2BP%2FBkIDC6AQKoDnz0Gy6eoGT85WbdRcJm0ZSxFUEuGf8UqGqgJqAL%2FFpJbR%2BEo1z43oxIKLyHH82qXMyUcTJC9Vy2bHWaxyHmyaLvqv9nh4mNySJFgID%2BWPt1e453nOw7Of6oQi6fwkbFS50XyM2ZrHq2OJAAFxu0ARwfiw79qFAvkJYXRkyTA1RJOomBK6UIq%2BKcRrIfwk9wjt5iY%7Ctkp%3ABFBMsKHr4o9h>

You

8:21 PM

pjrc's encoder library: https://www.pjrc.com/teensy/td_libs_Encoder.html

Carl Ott

8:23 PM

~8:22pm - Ray - playing around with the VL53L5CX - SparkFun 8x8 array of Time of Flight distance sensors. But is 'vertical' and needs to slant it backwards so it doesn't hit the floor. Still evaluating to use for 6-can or can-can soccer

Carl Ott

8:25 PM

Also - discussed using a line-projecting laser (horizontal with the floor) and looking at it with an openMV-H7 looking down, as a way to measure distance to floor.

You

8:29 PM

Adafruit NeoPixel Driver BFF Add-On for QT Py and Xiao:

https://www.adafruit.com/product/5645?utm_source=Adafruit+Products+Newsletter&utm_campaign=34fb4fcec-f-EMAIL_CAMPAIGN_2022_11_14_01_55&utm_medium=email&utm_term=0_f5693aed98-34fb4fcec-f-114686184

ArduCam TOF depth camera now available: <https://www.kickstarter.com/projects/arducam/time-of-flight-tof-camera-for-raspberry-pi>

Carl Ott

8:34 PM

30 Nov – Open House / Computer Vision Demo Day @ the Dallas AI Center. Sign up at

<https://www.meetup.com/computer-visionaries/events/289379696/>. The Dallas AI Center is a co-working facility focused on Computer Vision and AI <https://www.aicenter.tech/>

Carl Ott

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Then had a discussion about various robot runs at 12 Nov RoboColumbus. Lots of discussion around Vision based orange cone detectors in bright sunlight. Ray showed his OpenMV routine that cycles through various thresholds made to detect cones in different lighting conditions. Ray also described using a linear polarizer ahead of the lens, to help deal with the image getting washed out in bright sunlight...

Carl Ott

9:04 PM

Somebody referenced the new Arducam Active Time-of-Flight Depth Camera for Raspberry Pi - some links

<https://www.hackster.io/news/arducam-launches-active-time-of-flight-depth-camera-module-for-the-raspberry-pi-c5453e68514a>

<https://www.arducam.com/time-of-flight-camera-raspberry-pi/>

Carl Ott

9:09 PM

~9:08pm Karim showed Iron Reign results from Saturday..

You

9:25 PM

FTC needs judges Dec. 10

Ponder SomeMore

9:28 PM

email ironreignrobotics@gmail.com if you can judge on December 10th

Ponder SomeMore

9:30 PM

<https://goo.gl/maps/K27LwqpQ6E7BjjMM7>

Carl Ott

9:31 PM

Upcoming Calendar for DPRG

- regular Tuesday Night meetings

- 10 Dec - to extent volunteers interested - Iron Reign would greatly appreciate help to run a competition

Carl Ott

9:33 PM

- 17 Dec (noon) - Iron Reign will present at monthly DPRG meeting

7 photons

9:39 PM

I've got to go, See you all next week.

Carl Ott

9:43 PM

~9:41pm- John K showed the page for a (discontinued) 4 wheel outdoor robot platform he found while cleaning the house...D

Ponder SomeMore

9:57 PM

<https://www.revrobotics.com/rev-41-1600/>