

DPRG RBNV Chat Record – July 27, 2021

Carl Ott
7:38 PM

7:37 - Ray started off talking about IMU calibration

Carl Ott
7:39 PM

used an OpenMV Cam to measure degrees of rotation of a basic compass - to show how a magnet affects / corrupts compass heading

Carl Ott
7:42 PM

Ray is using one of these modules - which has a rich feature set of controls and visualization

<https://openmv.io/>

Jim F - CalgaryAB
7:58 PM

Hello Roboticists

Carl Ott
7:58 PM

Hi Jim

7:58 - Chris talking about BNO085 IMU and sensitivity to a spinning LIDAR sensor

Carl Ott
8:00 PM

Only when increases Lidar rotation speed beyond ~ 900 RPM or 1000 RPM, you can watch the IMU output change quickly... with lower RPM - haven't verified zero impact - but definitely found small impact

Jim F - CalgaryAB
8:01 PM

Comluter Vision Training is Challenging, Fun & Entertaining. Cone / Not A Cone / Not A Hotdog !

Sorry for typos, on mobile.

Jim F - CalgaryAB
8:03 PM

Spinning LiDar is expensive though.

Elaina R
8:12 PM

My code does not work can I go and get some help

Ted Meyers
8:13 PM

I think you have time to get help

Elaina R
8:13 PM

What

Carl Ott
8:45 PM

~ 8:15 Franklin showed his mBot and the club helped him debug it

8:45pm Murray talking about his mailbox project, actually leveraging his DIY OS

Carl Ott
8:54 PM

8:53 John G talking about his custom motor control board

Karim Virani

9:03 PM

I shared a Jam file with the meeting:

[https://jamboard.google.com/d/14bvXPIIzh5UtCecNAwZBrVNx5IXzyc_HSRj8q8Yarg/edit?usp=meet_w
hiteboard](https://jamboard.google.com/d/14bvXPIIzh5UtCecNAwZBrVNx5IXzyc_HSRj8q8Yarg/edit?usp=meet_w
hiteboard)

Karim Virani

9:07 PM

Doug, is this you in 2014 at a FOC seminar at TI?

Rajshekar Prabhakar

9:09 PM

I have this

https://www.amazon.com/gp/product/B00VUHIDLA/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1

I can lend

Carl Ott

9:10 PM

MPU9255 BMP280

Kelly Taylor

9:10 PM

[https://www.amazon.com/gp/product/B078Y6323W/ref=ppx_yo_dt_b_asin_title_o01_s00?ie=UTF8&psc=](https://www.amazon.com/gp/product/B078Y6323W/ref=ppx_yo_dt_b_asin_title_o01_s00?ie=UTF8&psc=1)

[1](#)

Ted Meyers

9:10 PM

Pat, my email is ted.meyers@gmail.com if you need help, send me an email

Carl Ott

9:11 PM

Circa 9pm- Carl gave update on DTBW / duct tape and bailing wire outdoor rover...

Carl Ott

9:13 PM

circa 9:10pm Pat gave an update

Pat Caron

9:18 PM

Ted you should remove your email address from the chat

Carl Ott

9:18 PM

Pat and Ted - I'll remove the emails and such before posting on dprg.org...

Carl Ott

9:23 PM

~9:22pm Raj adding CV via an OpenMV cam to the DTBW rover carl started

Pat Caron

9:23 PM

Ted, I sent you an email

Carl Ott

9:33 PM

9:31 - John K - showing Olympics basketball shooting robot

Carl Ott

9:35 PM

9:35pm Pat gave presentation on his RPi running OpenCV / detecting a traffic cone

Carl Ott

9:52 PM

for those not familiar - we mentioned the "Donkey Car" project in this discussion - it's an open sourced project that put's a RPi 'hat' on top of an RC-Car chassis - runs a tensorflow model on the RPi - and thereby let cars self-drive in races... <https://www.donkeycar.com/>

9:52 - Doug P- showed a stand-in robot for his outdoor / with an array of ultrasonic sensors

Chris N

9:58 PM

gonna call it a day...

Carl Ott

10:03 PM

keep going guys - sorry - got a phone call I have to take...

10:03 Harold gave an update

Elaina R

10:04 PM

I have to go to bed now bye

Karim Virani

10:07 PM

<https://github.com/fediazgon/cone-detector-tf>

Harold Pulcher

10:11 PM

<https://azure.microsoft.com/en-us/services/cognitive-services/custom-vision-service/>

Karim Virani

10:20 PM

feedback is for schmucks

Carl Ott

10:20 PM

!!!!

Pat Caron

10:25 PM

Have a good night guys! See you next mtg

Karim Virani

10:31 PM

<https://www.youtube.com/watch?v=fpTvZlnrsP0>

Carl Ott

10:32 PM

Thanks Karim - nice reference to TI Seminar from 2014 - good content

'Teaching Old Motors new Tricks'