

## DPRG RBNV Chat Record – 10/18/2022

Carl Ott

7:42 PM

~7:41pm - John G - update to his version 2 Halloween Skull Face

Ponder SomeMore

7:46 PM

that's the important bit - the captain

Carl Ott

7:46 PM

~7:43pm - showed a very cool Lego submarine, that uses a syringe ballast to pump water in and out. Magnetic coupled motor... navigated along a stream capturing video along the way...

John Gauthier

7:46 PM

<https://www.youtube.com/watch?v=KLEH8RJsYgl>

[https://www.youtube.com/shorts/9\\_ohBqUonbU](https://www.youtube.com/shorts/9_ohBqUonbU)

ed mart

7:48 PM

Gold star for John skull face

Carl Ott

7:48 PM

~7:48pm- Michael gave an update - progress to get his robot to drive in a straight line

Carl Ott

7:51 PM

GOLD STAR for Michael / pretty straight lines in a 4-square pattern. Using cheapie yellow motors (Mouser) / wheels from Adafruit. Modified code from Sparkfun.

Carl Ott

7:56 PM

~7:55pm - Doug showed a new part from Adafruit - a PC9548 8-channel STEMMA QT Qwicc I2C Multiplexer - TCA9548A compatible

<https://www.adafruit.com/product/5626>

Carl Ott

7:57 PM

~8:56pm - Doug showed a video of his RoboColumbus robot wandering around in his yard and reaching cone. - GOLD STAR for Doug...

Michael Ivison

8:05 PM

Sparkfun straight line code.

<https://gist.github.com/ShawnHymel/1de08ffaca990b65fade81cb8d01a44a>

Carl Ott

8:05 PM

Doug showed Raspberry Pi with Oak-D Lite - finding cone w/ a decent reliability. The steering using GPS estimated distance to waypoint and IMU 9DOF heading to waypoint.

Carl Ott

8:09 PM

~8:07pm - Doug explained his safety switch - using a pistol grip R/C controller, using the built-in feature that when TX signal lost RX commands normally go to center.

Ponder SomeMore

8:09 PM

we used throttle for Deadman safety on Mechavator

Ponder SomeMore

8:11 PM

I think I can, I think I can ...

Carl Ott

8:17 PM

~8:16pm John K - showed a scalable OpenSCAD project for printing wheels...

<https://www.thingiverse.com/thing:5573243>

Carl Ott

8:19 PM

and another project / a robot with an interesting suspension - two 'fixed' axels front and back, with longitudinal pivot front to back... <https://www.thingiverse.com/thing:5573218>

Carl Ott  
8:25 PM

<https://devclass.com/2022/10/17/github-copilot-under-fire-as-dev-claims-it-emits-large-chunks-of-my-copyrighted-code/>

Ponder SomeMore

8:34 PM

I have something to say on the GPS RTK front

Carl Ott

8:35 PM

~8:34pm - John K showed another project - a Robotic Vacuum Mini <https://www.thingiverse.com/thing:5570550>

Ponder SomeMore

8:35 PM

it'll be brief

Carl Ott

8:35 PM

Ponder SomeMore- you're next!

Ted Meyers

8:36 PM

RTK! looking forward to it

Carl Ott

8:42 PM

~8:41pm - Karim gave an update on RTK - set up on beach. Summarized normal process to give a base-station a fix.

Found another option - use it as a GPS RTK rover - could use by UBlox using a service called Point Perfect

<https://www.u-blox.com/en/product/pointperfect>

Carl Ott

8:46 PM

for \$4.00 per month -of PointPerfect IoT Location-as-a-Service - was able to get a fix for his RTK base-station...

<https://portal.thingstream.io/pricing?>

Carl Ott

8:54 PM

Guys - Please keep going - I must bail in the next few minutes for a work call...

Carl Ott

9:00 PM

OK guys - I must roll. Keep it up. Catch you next week...