

DPRG RBNV Chat Record – 6/28/2022

Carl Ott

7:42 PM

~7:40pm - Doug D- showed progress with his telepresence robot using Robie /now has mounted a power tool recharger... Also showed the power distribution schematic

Carl Ott

7:48 PM

also discussed some coding concerns / style guidelines...

John Gauthier

7:48 PM

Impromptu code review...

Carl Ott

7:50 PM

Also - several votes for using VS Code with the Arduino extension. That combination provides an excellent tool to manage Arduino code development...

or similar alternatives like Platform.io

Carl Ott

7:55 PM

Note that we found common interest in the club for a workshop on better IDE's for Arduino - perhaps something like: Doug P / Carl O IDE's -> Platform.io for Arduino and VS Code for Arduino

Carl Ott

8:06 PM

~8:00.. 8:05 - Doug P & Carl discussed different approaches to have code execute at 20 Hz or 50 Hz, and also some rationale for executing code at regular intervals

Carl Ott

8:15 PM

~8:13pm - Ray showed a new looking differential drive outdoor robot base - motors from Tanners, RoboClaw controller, BNO055 IMU w/ OLED display... showed a demo of it driving a test routine between two waypoints 1 meter apart.

GOLD STAR FOR RAY!!!!!!

Carl Ott

8:18 PM

Ray planning to put GPS RTK, and use it (or a 4 wheel skid steer) for the upcoming outdoor competition

Carl Ott

8:19 PM

Ray - also discussed checking Harbor Freight for a small pancake style compressor - as a source of compressed air to blow cans into a goal...

Carl Ott

8:21 PM

https://smile.amazon.com/Gorilla-Force-Cartridges-Threaded-Pack/dp/B07GVS8JYF/ref=sr_1_3_sspa?keywords=c02+cartridges+for+bike+tire&qid=1656465634&sprefix=c02+cartridge%2Caps%2C2319&sr=8-3

https://smile.amazon.com/Pro-Bike-Tool-Inflator-Cartridge/dp/B076DBP2JZ/ref=sr_1_4_sspa?keywords=c02+cartridges+for+bike+tire&qid=1656465634&sprefix=c02+cartridge%2Caps%2C2319&sr=8-4

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Carl Ott

8:31 PM

~8:30pm - Raj picked up a 2016 Club Robot...

latest DPRG - REPO is here -- pretty old <https://github.com/dprg/2016-Club-Robot-Code>

Carl Ott
8:34 PM
Carl - willing to share his Club Robot code repo- but disclaimer - it's got lots of technical debt
<https://github.com/cottjr/2016ClubRobotCodeCarl>

Raj Prabhakar
8:46 PM
drawio for drawing on VS Code

Carl Ott
8:47 PM
Raj - can you recommend any specific Drawio extension for VS Code? There seem to be a ton of them...
And - does Drawio have a free level? -> ho - now it looks like it's called diagrams.net...
~8:46pm Pat asked recommendations - what platform to use for 6-can competition next year...

Raj Prabhakar
8:49 PM
@Carl - I use Draw.io Integration v1.6.4 from Henning Dieterichs

Carl Ott
8:49 PM
Thnx
at 800K downloads that seems to be the most popular - by far...

Ted Meyers
8:55 PM
robotshop.com
gobilda.com

Ted Meyers
8:56 PM
servocity.com

Carl Ott
9:07 PM
~9:05 pm - Doug asked a follow on question - about driving motors at higher than rated voltage but managing power via PWM...
You
9:17 PM
Totally silly non-robot diversion - check out this concept for a split wheel <https://laughingsquid.com/two-half-wheel-bike/>

Harold Pulcher
9:18 PM
<https://bit.ly/julypicnic2022>

You
9:19 PM
Thanks Harold - for invitation to the Improving Community 4 July BBQ