

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

Improptu code reiew...

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&srefix=c02+cartridge%2Caps%2C2319&sr=8-3-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEyTUYzUE5HQUtGU1ZCJmVuY3J5cHRIZElkPUEwODQ4NDQzOTU5MTINU1BLRFdaJmVuY3J5cHRIZEFkSWQ9QTA0MDU4OTczUkFTVEtYOTBQTkxUjndpZGdldE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JIZGlyZWNOJmRvTm90TG9nQ2xpY2s9dHJ1ZQ==

https://smile.amazon.com/Pro-Bike-Tool-Inflator-Cartridge/dp/B076DBP2JZ/ref=sr_1_4_sspa?keywords=c02+cartridges+for+bike+tire&qid=1656465634&srefix=c02+cartridge%2Caps%2C2319&sr=8-4-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEyTUYzUE5HQUtGU1ZCJmVuY3J5cHRIZEFkPUEwODQ4NDQzOTU5MTINU1BLRFdaJmVuY3J5cHRIZEFkSWQ9QTAyMDcwMjg3ZWUwUWJndpZGdldE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JIZGlyZWNOJmRv

Carl Ott

8:22 PM

yeah - why not use a CO2 cartridge for inflating bike tires - and then a small inflator tool like this:

https://smile.amazon.com/Pro-Bike-Tool-Inflator-Cartridge/dp/B076DBP2JZ/ref=sr_1_4_sspa?keywords=c02+cartridges+for+bike+tire&qid=1656465634&srefix=c02+cartridge%2Caps%2C2319&sr=8-4-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEyTUYzUE5HQUtGU1ZCJmVuY3J5cHRIZEFkPUEwODQ4NDQzOTU5MTINU1BLRFdaJmVuY3J5cHRIZEFkSWQ9QTAyMDcwMjg3ZWUwUWJndpZGdldE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JIZGlyZWNOJmRv

https://smile.amazon.com/Pro-Bike-Tool-Inflator-Cartridge/dp/B076DBP2JZ/ref=sr_1_4_sspa?keywords=c02+cartridges+for+bike+tire&qid=1656465634&srefix=c02+cartridge%2Caps%2C2319&sr=8-4-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEyTUYzUE5HQUtGU1ZCJmVuY3J5cHRIZEFkPUEwODQ4NDQzOTU5MTINU1BLRFdaJmVuY3J5cHRIZEFkSWQ9QTAyMDcwMjg3ZWUwUWJndpZGdldE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JIZGlyZWNOJmRv

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