DPRG RBNV Chat Record – 9/20/2022

Carl Ott
7:43 PM
starting queue: Ray, Michael, Harold, Doug P, John G

Carl Ott
7:45 PM
~7:44pm - Ray showed a video of his outdoor rover
chasing an orange cone

ed mart
7:46 PM
Ray you are on mute

Carl Ott
7:46 PM
ray your audio is muted!

Carl Ott
7:47 PM
GOLD STAR for RAY!

Carl Ott
7:50 PM
discussed options to handle some obstacle cases

Carl Ott
7:51 PM
~7:51 - Ray asked about a B6-Mini - battery charger

Carl Ott
7:53 PM
https://www.skyrc.com/iMAX_B6mini_Charger

ed mart
7:54 PM
Had battery charger fail while trouble shooting Honda civic hybrid battery

Carl Ott
7:55 PM
Ed - hopefully no safety issue from that - everything OK?

ed mart
7:56 PM
Just setback waiting for Amazon replacement

ed mart
8:06 PM
Magic smoke refill

Carl Ott
8:08 PM
I have an 8 or 10 year version of the ElectriFly Triton EQ https://www.towerhobbies.com/product/electrifly-triton-eq-ac-dc-charger/GPMM3155.html
still going strong

Carl Ott
8:11 PM
~8:09- Michael gave an update on the arm he's building for his next gen claw machine

ed mart
8:17 PM
Gold STAR for Mike
Good Job

Carl Ott
8:24 PM
Here's an example servo driver board - PCA9685 12 Bit PWM - with IIC https://smile.amazon.com/PCA9685-Controller-Interface-Arduino-Raspberry/dp/B07WS5XY63/ref=sr_1_2?crid=JS90ZA2RMIQ3&keywords=servo+driver+board&qid=1663723421&sprefix=servo+driver+board%2Caps%2C102&sr=8-2

Carl Ott
8:28 PM

Here's vendor detail for the PCA9685 - https://www.nxp.com/products/power-management/lighting-driver-and-controller-ics/led-controllers/16-channel-12-bit-pwm-fm-plus-ic-bus-led-controller:PCA9685
Carl Ott
8:37 PM
~8:35pm - Harold - asked about PID loop code for a balancing robot...
Carl Ott
8:45 PM
I like this PID loop library
// by Brett Beauregard <br3ttb@gmail.com> brettbeauregard.com // For an ultra-detailed explanation of why the code is the way it is, please visit: // http://brettbeauregard.com/blog/2011/04/improving-the-beginners-pid-introduction/ // For function documentation see: http://playground.arduino.cc/Code/PIDLibrary
Doug P
8:47 PM
+1 for Brett Beauregard's Arduino library
Doug P
8:51 PM
Pololu robot is Balboa Robot
Pat Caron
8:59 PM
MPU6050 DMP Arduino library
https://forum.arduino.cc/t/finally-mpu6050-fifo-dmp-quaternion-code-for-arduino-made-easy/598424
Unknown
9:05 PM
Bertt Beauregard's PID Library (Tutorial)
http://brettbeauregard.com/blog/2011/04/improving-the-beginners-pid-introduction/
Carl Ott
9:15 PM
~9:11pmn - Doug P gave an update on his follower robot platform
Unknown
9:29 PM
A Onscreen Joystick With Pure JavaScript
https://www.cssscript.com/onscreen-joystick/#google_vignette
https://github.com/bobboteck/JoyStick
Carl Ott
9:32 PM
Thanks Dave - cool way to take advantage of a mobile phone or tablet with a touch screen and a browser - a virtual joystick - ready to spit values out to whatever needs joystick control
Doug P
9:32 PM
bandpass filter on eBay for orange: https://www.ebay.com/itm/253783326265
Pat Caron
9:42 PM
It's been a long day See you next week
Doug P
9:46 PM
PVC clamp from Thingiverse: https://www.thingiverse.com/thing:16807
Carl Ott
9:51 PM
KiCad circuit board design https://www.kicad.org/
Carl Ott
9:53 PM
Here are links to Doug's 6 part tutorial videos at DPRG Clips - Making DIY PCBs
https://www.youtube.com/user/DPRGclips/search?query=doug%20pcb
Carl Ott
9:54 PM
In those videos - Doug Paradis demonstrates how to make your own printed circuit boards using the laser printer toner transfer method at the February 2011 DPRG meeting.
Carl Ott
9:57 PM

Club recommended vendors for PCB
https://oshpark.com/
https://www.pcbway.com/
7 photons
10:04 PM
I've got to go good seeing you all.