DPRG RBNV Chat Records – 10/04/2011

Carl Ott
7:43 PM
~7:42pm Ray gave an update on progress...Had issues with RoboClaw controllers. Turned out to be a poor ground connection - loose screws - since he uses the RoboClaw to power everything...
Carl Ott
7:45 PM
Also discussed using KST and RealTerm - showed plots where sensors were (or were not) detecting an orange cone
Carl Ott
7:59 PM
~7:56pm - Michael showed experiments with yellow motors and different wheels & encoders. Working towards getting a robot to drive in a straight line...
Carl Ott
8:02 PM
~8:00pm- Michal asked for feedback about a tracked tank-steer robot approach for the Robo Columbus contest - maybe next year.
Carl Ott
8:04 PM
Some feedback- others have used them in the past. Are slow but can work especially when facing certain kinds of terrain. But also have downsides 1) hard to maintain 2) especially if made of plastic 3) especially 3-d printed plastic. "Think of a tank tread as lots of little points of failure"
Carl Ott
8:07 PM
~8:07: Doug P: started off a list of items with - showing off his rover progress...
Carl Ott
8:11 PM
~8:10pm - Doug shared some tutorials shared by a DPRG viewer in Fredericksburg VA...
Ted Meyers
8:21 PM
The Sparkfun "Mid Point" device is a repeater that lets you extend the range by up to 100 feet
Carl Ott
8:21 PM
~8:20pm showed I2C waveforms under varying conditions - long wires with motors running, etc...
Carl Ott
8:23 PM
with wires about 2 to 2.5 feet of mostly cat5 unshielded cable with twisted pair wire internally and also at each termination end
Carl Ott
8:28 PM
~8:26pm- Scott gave advice on what waveform should look like - how to tune by selecting pull-up resistors until there is just a little bit of ringing. Can also be a function of I2C bus rate
Carl Ott
8:42 PM
~8:40pm Scott showed his frame rolling around nicely in R/C mode...
John Gauthier
8:48 PM
https://github.com/zizumara/RunHeadless
Doug P.
8:48 PM
I2C tutorial links:
https://hackaday.com/2017/02/08/taking-the-leap-off-board-an-introduction-to-i2c-over-long-wires/
https://hackaday.com/2017/03/31/an-introduction-to-differential-i%C2%B2c/
Doug P.
8:50 PM
https://learn.adafruit.com/working-with-i2c-devices/overview
Carl Ott
8:50 PM
Scott earns a BLACK STAR... If only it were under R/C mode...

Doug P.
8:50 PM
I2C products:
https://www.sparkfun.com/products/16988
https://www.sparkfun.com/products/18000
https://learn.adafruit.com/adafruit-ltc4311-i2c-extender-active-terminator
Carl Ott
8:54 PM
~8:53pm Ray showed handmade polarizer inserts for his camera lenses...
ed mart
9:02 PM
Recently got a BMAX
Carl Ott
9:14 PM
~9:14pm- John K showed another tank option
https://material-handling.com/rj85a-simplex-ratchet-jack-5-ton.html?utm_source=google_shopping&gclid=CjwKCAjws--ZBhAXEiwAv-RNL6LZQxi4z_7OQeufAJESQ4BzATklUvIraaGVI67OU5BWbtW6enSgmBoCVLAQAvD_BwE
Carl Ott
9:16 PM
Tank JohnK found: https://www.thingiverse.com/thing:5533268