

## DPRG RBNV Chat Record – May 28, 2024

0:00:17.044,00:00:20.044

Jim F - CalgaryAB: Good Evening Everyone.



00:03:47.079,00:03:50.079

Jim F - CalgaryAB: Go Canadian Roboteers! & HugoBot & JimBot, of course ! ;-)

00:03:59.377,00:04:02.377

Ponder SomeMore: <https://www.dprg.org/roborama-2024/>

00:09:19.586,00:09:22.586

Jim F - CalgaryAB: Say again please. The wireless serial.

00:09:53.476,00:09:56.476

Jim F - CalgaryAB: Thank you.

00:09:53.748,00:09:56.748

Ponder SomeMore: wixels: <https://www.pololu.com/product/1336>

00:11:01.434,00:11:04.434

Paul Bouchier: Ray described a box he built that has an ESP32 which accepts serial data from a robot and sends it wirelessly to an Arduino IDE serial display

00:11:28.664,00:11:31.664

doug paradis: Wixel from Pololu: <https://www.pololu.com/product/1337>

00:12:07.155,00:12:10.155

Jim F - CalgaryAB: Python can capture and send serial on your laptop.

00:12:25.993,00:12:28.993

doug paradis: Pololu Memorial Day Sale -24% discount ends tonight.

00:14:42.776,00:14:45.776

Paul Bouchier: The robot publishes data on ESP-NOW. The box is plugged into your laptop. It receives the esp-NOW data from the robot, and presents it on a simulated serial port to the Arduino IDE running on the laptop..

00:15:45.729,00:15:48.729

Jim F - CalgaryAB: Nice.

00:15:48.790,00:15:51.790

Ted Meyers: Wixel is a TI CC2511F32 microcontroller

00:16:00.862,00:16:03.862

Ted Meyers: Been out since at least 2011

00:17:03.878,00:17:06.878

Ted Meyers: 2.4 GHz radio

00:17:08.581,00:17:11.581

Paul Bouchier: Ray found it was taking 100-200us for the robot to transmit a packet on ESP-NOW.

00:17:33.857,00:17:36.857

Paul Bouchier: Jon said the ESP-NOW transmit speed is 1Mbit/s

00:20:31.467,00:20:34.467

Paul Bouchier: Ray was sending around 20 bytes, and at 1Mbit/s that would take about 200us

00:22:46.323,00:22:49.323

Paul Bouchier: Jon has posted on Discord his work to build a robot version of Adam Savage's Star Wars robot

00:23:50.800,00:23:53.800

Paul Bouchier: Jon showed his 3D CAD model of the robot. Will have 1100mAh 3S robot, modeled in OnShape

00:26:15.787,00:26:18.787

Paul Bouchier: He specified a mate at pivot points of an assembly for the wheel suspension. Jon demonstrated the coupled linkages moving together in OnShape.

00:29:23.484,00:29:26.484

Paul Bouchier: Jon showed some of the parts he's printed and the PCB's that will mount to them

00:34:39.450,00:34:42.450

Jon Hylands: <https://www.aliexpress.com/item/1005005256800825.html>

00:38:20.187,00:38:23.187

Paul Bouchier: Jon will add a piece of metal at the proper place to balance it.

00:42:35.829,00:42:38.829

Ray Casler: maybe a rhombus??

00:50:00.519,00:50:03.519

Ponder SomeMore: dang brickbot foiled again

01:00:04.275,01:00:07.275

Pat Caron: <https://www.pololu.com/category/306/carriers-for-st-time-of-flight-tof-distance-sensors>

01:18:47.709,01:18:50.709

doug paradis: Wit-motion wt601c-

ttl: [https://www.amazon.com/dp/B07YTYMWHK?ref=emc\\_s\\_m\\_5\\_i\\_atc](https://www.amazon.com/dp/B07YTYMWHK?ref=emc_s_m_5_i_atc)

01:25:10.977,01:25:13.977

Ponder SomeMore: Paul's ROS on Docker workshop

<https://www.youtube.com/watch?v=DIMf-aAZBog>

01:29:35.996,01:29:38.996

Carl Ott: cool stuff. Sorry but I need to bail - catch y'all after a couple weeks...

01:33:33.430,01:33:36.430

Ponder SomeMore: o-ring:

01:33:33.936,01:33:36.936

Ponder

SomeMore: [https://www.google.com/search?q=90mm+o+ring&rlz=1C1CHBF\\_enUS1021US1021&oq=90mm+o+ring&gs\\_lcrp=EgZjaHJvbWUyCQgAEEUYORiABDIHCAEQABiABDIHCAIQABiABDIICAMQABgWGB4yCAgEEAAYFhgeMggIBRAAGBYHjIICAYQABgWGB4yDQgHEAAYhgMYgAQYigUyDQgIEAAYhgMYgAQYigUyCggJEAAYogQYiQXS AQgzNzA1ajBqN6gCCLACAQ&sourceid=chrome&ie=UTF-8#vhid=vt%3D16/prds%3Dcatalogid:9308002552002053536,gpcid:15201549314810148820,headlineOfferDocid:-6262187921380740756,imageDocid:13267603274275243655,mid:576462762137335912,mno:3,pvo:3,pvt:hg,query:O](https://www.google.com/search?q=90mm+o+ring&rlz=1C1CHBF_enUS1021US1021&oq=90mm+o+ring&gs_lcrp=EgZjaHJvbWUyCQgAEEUYORiABDIHCAEQABiABDIHCAIQABiABDIICAMQABgWGB4yCAgEEAAYFhgeMggIBRAAGBYHjIICAYQABgWGB4yDQgHEAAYhgMYgAQYigUyDQgIEAAYhgMYgAQYigUyCggJEAAYogQYiQXS AQgzNzA1ajBqN6gCCLACAQ&sourceid=chrome&ie=UTF-8#vhid=vt%3D16/prds%3Dcatalogid:9308002552002053536,gpcid:15201549314810148820,headlineOfferDocid:-6262187921380740756,imageDocid:13267603274275243655,mid:576462762137335912,mno:3,pvo:3,pvt:hg,query:O)

01:34:07.924,01:34:10.924

Ponder SomeMore: <https://us.rs-online.com/product/rs-pro/1965869/72185557/>

01:36:20.595,01:36:23.595

Pat Caron: See you on Saturday guys

01:41:33.814,01:41:36.814

Ponder SomeMore: i'ma head back to my rabbit holes - see y'all saturday

01:41:52.042,01:41:55.042

Paul Bouchier: My PiDog Quicktrip code: [https://github.com/PaulBouchier/pidog\\_apps](https://github.com/PaulBouchier/pidog_apps) -  
run sudo step\_fwd\_back.py