

DPRG RBNV Chat Record – 12/7/21

Chat

Carl Ott

7:42 PM

~7:41- John - looking for expertise debugging HW in I2C...

Carl Ott

7:51 PM

<https://i2cdriver.com/>

Carl Ott

7:52 PM

that's an I2C bus analyzer - intended to help diagnose I2C bus issues

Pat Caron

7:58 PM

Test 123

Doug Paradis

7:59 PM

inexpensive logic analyzer: https://www.amazon.com/HiLetgo-Analyzer-Ferrite-Channel-Arduino/dp/B077LSG5P2/ref=sr_1_6?keywords=logics+analyzer&qid=1638928721&sr=8-6

Carl Ott

8:07 PM

~8:05- Dave showed new board(s) starting with <https://www.cytron.io/p-maker-pi-rp2040-simplifying-robotics-with-raspberry-pi-rp2040>

Carl Ott

8:15 PM

inexpensive RP2040 based board with lots of already connectorized I/O, motor drivers, buttons, LEDs and NeoPixels

Carl Ott

8:20 PM

~8:19- Doug D- talking about his telepresence robot...

Carl Ott

8:27 PM

~8:25 - Pat - looking at Pololu 3-channel wide FOV time of flight sensor using OPT3101

- <https://www.pololu.com/product/3412>

Carl Ott

8:39 PM

~8:38- Ray- showed a Makerfabs ESP32 UWB module for positioning... <https://www.hackster.io/news/makerfabs-arduino-compatible-esp32-uw-module-takes-aim-at-accurate-indoor-positioning-3f4b1a5967a3>

Carl Ott

8:45 PM

Note to viewers - pin Dave Ackley's window if you'd like to see a cool looking JST connector variety pack...

~8:45- Ray showed another handy looking little board with built-in OLED display - nice expansion board for the QT Pi

Pat Caron

8:54 PM

<https://ams.com/en/as5600>

Carl Ott

8:55 PM

that's a link to a AS5600 Position Sensor 12-bit on-axis magnetic rotary position sensor with analog or PWM output

Pat Caron

8:58 PM

https://ams.com/documents/20143/36005/AS5600_DS000365_5-00.pdf/649ee61c-8f9a-20df-9e10-43173a3eb323

Carl Ott

9:18 PM

~ 9:16- Paul B- looking for ways to provide shore power to the electronics while working on the bench - yet easily/automatically switch to the battery w/o rebooting...

came across the "ideal diode" - which is basically a FET Switch based circuit...

James Nugen

9:25 PM

<https://www.ti.com/power-management/power-switches/ideal-diodes-or-ing-controllers/overview.html>

James Nugen

9:28 PM

https://www.ti.com/lit/an/slva57b/slva57b.pdf?ts=1638930459011&ref_url=https%253A%252F%252Fwww.bing.com%252F

Carl Ott

9:28 PM

more resource on Ideal Diodes <https://www.google.com/search?q=ideal+diode+circuit>

Paul Bouchier

9:29 PM

Ideal diode https://www.amazon.com/Ginorgge-Ideal-Diode-Irrigation-Protection/dp/B092LXWFOH/ref=sr_1_5?qclid=Cj0KCOiAqbyNBhC2ARIsALDwAsC9vEhvHbhedY036G2aq8EYnmWFK6aNacTL6M8TJ-KjpxYZYUo6lZcaAgxuEALw_wcB&hvadid=409940752929&hvdev=c&hvlocphy=9026830&hvnetw=g&hvqmt=e&hvrnd=452378122731170880&hvtargid=kwd-301196894853&hydadcr=24664_11410923&keywords=ideal+diode&qid=1638933035&sr=8-5

Circuit of ideal diode <https://electronics.stackexchange.com/questions/223935/understanding-an-ideal-diode-made-from-a-p-channel-mosfet-and-pnp-transistors>

Murray Altheim

9:30 PM

Raspberry Pi PDP11 <https://www.tindie.com/products/obso/pdp-11-replica-kit-the-pidp-11/>

Carl Ott

9:31 PM

~9:30- John going to start another side-project for next Halloween - animatronic dual eye mechanism... but use openCV to have the eyes follow people who come up...

Doug Paradis

9:36 PM

John you might find this Instructable useful for making realistic

eyes. <https://www.instructables.com/DIY-Faux-Resin-CharmsGems-Using-Hot-Glue/>

Carl Ott
9:46 PM

~9:44- Doug D showed his telepresence robot rolling around

Murray Altheim
9:50 PM

 gold star

ed mart
9:52 PM

 gold star

Murray Altheim
9:52 PM

U+2B50

ed mart
9:52 PM

 gold star  gold star  gold star  gold star

John Gauthier
9:53 PM

U+2B50

Doug Paradis
9:53 PM

test: U+2B50

Carl Ott
9:53 PM

 




John Gauthier
9:55 PM

\2B50

Carl Ott
9:55 PM

~9:54- John K showed another mini-mars rover <https://www.thingiverse.com/thing:3576552>

Doug Paradis
9:56 PM

glowing_star

   

Carl Ott
9:57 PM

and this one <https://www.instructables.com/6WD-Mars-Rover/>