DPRG RBNV Chat Record – April 23, 2024

Paul Bouchier
7:45 PM
Mike W update: has been working on Universal Robot Controller

Paul Bouchier
7:50 PM
Problems getting the remote end of the ESP-NOW link to link up with his ROS computer. Tried 3 boards, but only an ESP32-S2 worked.

Doug Dodgen
8:06 PM
PiDog Documentation https://docs.sunfounder.com/projects/pidog/en/latest/

Paul Bouchier
8:16 PM
ps -ef | grep ssh root 611 1 0 20:13 ? 00:00:00 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups bouchier 760 702 0 20:13 ? 00:00:00 /usr/bin/ssh-agent x-session-manager bouchier 841 1 0 20:13 ? 00:00:00 /usr/bin/ssh-agent -s root 1123 611 0 20:13 ? 00:00:00 sshd: bouchier [priv] bouchier 1129 1123 0 20:13 ? 00:00:00 sshd: bouchier@pts/0

Paul Bouchier
8:29 PM
Doug D. demo'd his PiDog doing canned moves and using the cell phone app to control it

Paul Bouchier
8:30 PM
Jon showed URC receiving (fake IMU) status from the robot.

Paul Bouchier
8:33 PM
GOLD STAR for Mike W for demo-ing Four Square

Paul Bouchier
9:03 PM
Doug P showed his electrical load test device.

Tom C - Hamilton, ON
9:05 PM
I built a Load Tester a few years ago. Article here: https://technoexcursions.blogspot.com/2021/

Jon Hylands
9:08 PM
https://www.aliexpress.com/item/1005004155318331.html
Different one:
https://www.aliexpress.com/item/1005004147974445.html

Pat C
9:14 PM
https://www.amazon.com/Xcoazipod-Type-C-Charging-Transmission-Connector/dp/B09JVRJVTG/

Paul Bouchier
9:14 PM
Doug showed USB-C connectors with solder terminals on the end. Useful for bringing fat power wires to RPis

Paul Bouchier
9:17 PM
Jon showed an inline USB power-meter that displays USB voltage, current drawn by a device, power, etc

Pat C
9:22 PM
Is this what you have Doug P. https://www.amazon.ca/gp/product/B09TQBLZ68/

Paul Bouchier
9:23 PM
Atlas' last hurrah video: https://www.youtube.com/watch?v=-9EM5_VFlt8

Paul Bouchier
9:26 PM
Ray showed the warning about the BNO055 not working well with many processors due to I2C violations. Jon said the BNO085 is stable to a couple of degrees over 30 minutes when stationary.

Paul Bouchier
9:29 PM

Chris N said he's seen the 085 output more degrees of turn than the robot actually turned.
Chris N
9:31 PM
https://www.bosch-sensortec.com/products/motion-sensors/imus/bmi088/
Karim Virani
9:33 PM
https://community.bosch-sensortec.com/t5/MEMS-sensors-forum/Which-IMU-has-the-best-performance/td-p/25233#:~:text=For%20drone%20and%20robot%20applications,consumption%20and%20lower%20noise%20density
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Paul Bouchier
9:44 PM
Ray showed popular drone radios SICK by Holyroke?
Karim Virani
9:45 PM
sik
Karim Virani
9:46 PM
https://ardupilot.org/copter/docs/common-sik-telemetry-radio.html