DPRG RBNV Chat Record – April 30, 2024

Jim F - CalgaryAB
7:32 PM
Hello from Calgary.
Jim F - CalgaryAB
7:34 PM
Does Ray have a ceiling fan? Video is flickering. May cause seizures.
Carl Ott
7:39 PM
Paul - I've got the recording laptop ready - I can do it if you want.
Jim F - CalgaryAB
7:40 PM
Would be interesting to see it done on KiCad. That's popular design software.
Mickey Dean
7:48 PM
I feel the OPPOSITE with humanoid robots, I do not like them trying to appear human.
I prefer a more cyborg humanoid.
Paul Bouchier
7:51 PM
GOLD star for Karim - Pioneer robot moved under teleoperation
Jim F - CalgaryAB
7:51 PM
Congrats @Karim ! 💥
Carl Ott
7:58 PM
Ted - thanks for the shout out to standards change - I don't recall ever hearing that before. Here's a link that describes the fudge factors adjusted in 1958 / 1959 https://www.nist.gov/pml/owm/si-units-length#:~:text=The%20new%20conversion%20factors%20were,exactly%20equivalent%20to%2025.4%20mm.
and this looks like the official doc -
https://www.nist.gov/system/files/documents/2017/05/09/frn-59-5442-1959.pdf
Ted Meyers
8:01 PM
Carl - you might also be interested to know that aluminum cans are different in Hawaii:
https://vinepair.com/articles/hawaiian-beer-can/#:~:text=The%20design%20calls%20for%20more,prevents%20cans%20from%20easily%20rupturing.
Jim F - CalgaryAB
8:01 PM
Doug P. Is doing Teleportation effects with his background.
Mickey Dean
8:02 PM

but also, a couple levels cheaper
Chris N
8:07 PM
link to website that I use for CPU benchmarks:
https://www.cpubenchmark.net/cpu_lookup.php?cpu=BCM2835&id=4671
Chris N
8:08 PM
unfortunately, that site doesn't have data for all the various BCM2xxx SoC's used in the different Pis
https://www.cpubenchmark.net/cpu.php?cpu=Intel+N100&id=5157
Mickey Dean
8:09 PM
i wonder about which is easier to integrate with other micros
Carl Ott
8:10 PM
Ted - thanks that's pretty cool. I always get a kick about places deciding to 'be different'. At least nobody has decided to redefine the units of time / hours and minutes. OH WAIT - NASA has been tasked to define a time zone specific for the moon.
https://www.npr.org/2024/04/09/1243405460/space-news-moon-nasa-time-zone-white-house
But at least there seems to be a reasonable reason for that...
Due to the moon's lower gravity and its motion relative to Earth, moon time passes 56 microseconds faster each earth day. As a result, an atomic clock on Earth would run at a different rate than an atomic clock on the moon.
Mickey Dean
8:10 PM
my guess is the Pi is easier to integrate.
Mike Williamson
8:11 PM
Carl, that is a lot of time diff!!
Carl Ott
8:12 PM
Mike - yeah - just when you think you can rely on an atomic clock... everything gets relative....
Paul Bouchier
8:15 PM
David A reported what Brady explained last Saturday: JCLPCB ships 5 boards for $2. David said the SW is so easy to use.
Ted Meyers
8:15 PM
I missed it, can someone post a link to the board maker company.
got it: https://jlcpcb.com/
Paul Bouchier
8:18 PM
Brady said you can get 4 layers 50mm x 50mm for the same price.
It supports copper flow.
Ted Meyers
8:19 PM

https://easyeda.com/

Paul Bouchier
8:25 PM
Doug is making a new video using audio from the meeting and Brady's slides.

Paul Bouchier
8:31 PM
David A has made his own PCB footprints & schematic symbols using EasyEDA

Paul Bouchier
8:35 PM
Carl talked about a job opportunity - shipping 50 or so devices at a time, & helping ppl set it up. Starting in 3 weeks & lasts about a year. Simple tech.

Paul Bouchier
8:44 PM
David A has been using Thonny over Wi-Fi. Suggest using PLA for the case for temp. Doug P suggests.

Doug P.
8:45 PM
ABS for final case

Paul Bouchier
8:46 PM
Harold suggests Zac Friedman on 3D materials & prints

Paul Bouchier
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Paul Bouchier
8:48 PM
Mike W has modified Jon's URC code to operate his robot's claws, and to report back battery value.

Paul Bouchier
8:52 PM
Mike was modifying Jon's code by making a new module & his own main().

Paul Bouchier
8:55 PM
There's some questions as to reliability of communication with URC.

Paul Bouchier
8:57 PM
Doug announced a return to the Ron Grant style of Roborama prize - the laser-cut Robie.

Ponder SomeMore
9:04 PM
https://www.dprg.org/renew-your-membership/

Paul Bouchier
9:11 PM
Mike W reported that dragging a can around did not disturb his robot's odometry enough to matter.

Paul Bouchier
9:13 PM
Discussion of having an outdoor picnic in September for DPRG 40th birthday celebration.