DPRG RBNV Chat Record – Oct 17, 2023

Jim F - CalgaryAB
7:46 PM
@ Ray how are your wireless communications projects going?

Chris N
7:47 PM
From Jim F: What are popular micro-controllers that DPRG community like to use for starter robotics projects?

Jim F - CalgaryAB
7:47 PM
Thanks Chris.
On mobile.

Ponder SomeMore
7:48 PM
all of thm

Jim F - CalgaryAB
7:48 PM
Sure.
Or prototype

Jim F - CalgaryAB
7:50 PM
Interpret "starter" any way that works.

Chris N
7:51 PM
My Favorite: Pololu Orangutan SVP-1284. Unfortunately, obsolete but I'll talk about it.

Jim F - CalgaryAB
7:58 PM
Thanks Chris. Great explanation.

Mike Williamson
7:58 PM
My opinion: I used the Arduino development environment. There are many libraries which is very important. The actual chip/board is not that important for a 1st timer, not too performance oriented.

Jim F - CalgaryAB
8:01 PM
Thanks for the answers!

Ponder SomeMore
8:05 PM
Does anyone have experience with jumperless breadboards? Like https://www.youtube.com/watch?v=_k0aKM68Xl4

Mike Williamson
8:05 PM
that looked cool Ponder

You
8:06 PM
Chris discussed an A-Star 32U4 Robot Controller SV with Raspberry Pi Bridge, https://www.pololu.com/product/3118
8:07 PM
I purchased a few Maker Pi rp2040 from DigiKey.

You
8:08 PM
David showed a nice Rp2040 board "Maker Pi Rp2040".

Unknown
8:11 PM
https://www.cytron.io/p-maker-pi-rp2040-simplifying-robotics-with-raspberry-pi-rp2040

Unknown
8:18 PM
Raspberry Pi Pico Arduino core, for all RP2040 boards

Jim F - CalgaryAB
8:18 PM
Not confused. Great answers and options.
What about Adafruit Q T Py ?

Chris N
8:23 PM
I'm using it as a "co-processor". Not enough I/O
The small form-factor is nice for some use cases
Jim F - CalgaryAB
8:24 PM
Thanks for the great answers and discussion. 👍
Mike Williamson
8:25 PM
It looks good to control i2c motor controllers and servos since its IO is limited. SAMD21 has lots of cpu power.
Michael Ivison
8:27 PM
https://www.mouser.com/ProductDetail/Seeed-Studio/102991562?qs=QNEnbhJQKvYxwOsRFdzkDQ%3D%3D
Paul Bouchier
8:28 PM
@ponder didn't even know about jumperless breadboards, but the video looks amazing!
ed mart
8:29 PM
Digikey maker pi RP2040 $11.28 US dollar
Jim F - CalgaryAB
8:30 PM
Thank You! Great answers!
You
8:49 PM
Chris discussed occupancy grids.
Ray showed his results with an ArduCAM ToF Depth camera.
You
8:53 PM
He described an interaction he saw between the ArduCAM and another camera when both were connected.
Ray
9:06 PM
https://wiki.sipeed.com/hardware/en/maixsense/maixsense-a010/maixsense-a010.html
You
9:07 PM
Ray posted alternate depth camera that uses a lot less power.
Pat C
9:36 PM
Very interesting talk tonight guys. I have an early morning. See you next week.
Chris N
9:45 PM
I just asked it to not use pulseIn() and it did give me code that is using interrupts...
Jim F - CalgaryAB
9:46 PM
Thanks for the meeting and answers to my questions. Have a great evening.
You
9:55 PM
YouTube channel on best practice for 3D printed designs - Slant 3D.