

## DPRG RBNV Chat Record - February 20, 2024

Jim F - CalgaryAB

7:43 PM

Hello @ Brad. Did you mention DuckieTown the other meeting? Care to discuss more?

Brad Garton

7:43 PM

Yes, I did.

I don't know that much about it but I can find it and show it. It was just from the website and a video I saw.

Brad Garton

7:44 PM

<https://duckietown.com/>

It was referenced on one of the Nvidia Jetson channels.

Jim F - CalgaryAB

7:48 PM

I am interested in adapting the layouts to be simulator friendly, and various micro controllers friendly. I am mostly into software, can't afford much hardware, limited finances, are you on any Discords? @ Brad? I am on Harold Pulcher's Discord.

Ted Meyers

7:48 PM

Sorry, my mic died. Is this new competition an outdoor or indoor competition?

Pat C

7:50 PM

I proposed a competition and mentioned Sample Retrieval as a possibility. Doud/Paul mentioned September.

Ted Meyers

7:50 PM

Do you have a link to a description of the competition?

Pat C

7:50 PM

Oops, Doug P & Paul

Brad Garton

7:50 PM

You might look here for the duckietown software, but I assume each university participating might have localized builds etc.

<https://github.com/duckietown>

Jim F - CalgaryAB

7:51 PM

Thank You, @ Brad G.

Ted Meyers

7:53 PM

interested!

Doug P.

7:53 PM

Rules for Sample Retrieval Constant: [www.dprg.org/wp-content/uploads/2019/01/sample\\_retrieval\\_v20190115.pdf](http://www.dprg.org/wp-content/uploads/2019/01/sample_retrieval_v20190115.pdf)

Tom C - Hamilton, ON

7:57 PM

edge impulse looks like another good entry level ML tool. A member in the Vancouver group has a project using it with an Arduino 32b computer. See <https://dronebotworkshop.com/esp32-object-detect/>

Paul Bouchier

8:06 PM

Chris N talked about his debugging strategy: using PlatformIO in VSCode.

Paul Bouchier

8:08 PM

@Jim F: Do you know about Murray Altheim's Personal Robotics discord server? It's very good and quite active.

Jim F - CalgaryAB

8:10 PM

@ Paul, do you have the invite handy, please, thank you.

Paul Bouchier

8:15 PM

@Jim F invite: <https://discord.gg/HVzjS5YE>

Paul Bouchier

8:17 PM

Chris N demo'd debugging using PlatformIO in VSCode.

Paul Bouchier

8:43 PM

Chris showed ST's debugger being used to debug an elf file, without having to compile or load an image that ST's system built. i.e. it can jump in and debug something that PlatformIO built & loaded. He showed watchpoints: stops the processor when something writes to a variable.

Paul Bouchier

8:49 PM

Chris' assessment: the PlatformIO debugger is good for every-day debugging, not as powerful as vendor-specific eclipse debuggers, but useful for the common scenarios.

Ted Meyers

9:07 PM

I'm looking at this library for the sharp sensor: <https://github.com/DrGFreeman/SharpDistSensor>

Doesn't appear to have any blocking.

Does have some filtering.

Ted Meyers

9:14 PM

I can hear Ray!?

Weird

yes

Ted Meyers

9:21 PM

Question is about the "Canadian IP Office"

John Kuhlenschmidt

9:22 PM

<https://www.kickstarter.com/projects/doly/doly-more-than-a-robot?ref=4lmj1q>

<https://www.instructables.com/DIY-Doly-a-Companion-Robot-Powered-by-Raspberry-Pi/>

<https://www.instructables.com/Cheap-Remote-Controlled-Electric-Pushcart-200-Usin/>

Ted Meyers

9:28 PM

No audio?

Pat C

9:29 PM

I've got an early morning. Excellent meeting, see you next week.

Paul Bouchier

9:30 PM

<https://spectrum.ieee.org/drone-quadrotor>

Tom C - Hamilton, ON

9:42 PM

Robot Overlord robot simulation tools: <https://www.marginallyclever.com/products/robot-overlord/>

Chris N

9:58 PM

we seem to have some weird audio issues today where some people can't hear other people talk...

You

10:04 PM

Dog Robot - search Amazon for PiDog.