

DPRG RBNV Chat Record – May 9, 2023

Carl Ott

7:49 PM

~7:48- Ray showed progress with his 6 Can code.

Pat Caron

7:50 PM

Carl, will the competition be live on Meet?

Carl Ott

7:56 PM

Pat - yes - we'll fire up the same meet - details here and also on that competitions page: If possible remote competitors should join the competition's Google Meet during the competition using <https://meet.google.com/hey-ixuo-esf> or join by phone at +1 405-586-5598 PIN: 682 931 334 #. This can be accomplished using a smart phone or a computer. This allows for remote locations and the Dallas location to share the excitement of the competition together.

Carl Ott

7:57 PM

Ray - showed progress and questions from trying to apply David Anderson's odometry calculations from the June 2021 presentation: <http://www.geology.smu.edu/~dpa-www/robo/dprg-12jun2021/dprg-talk.pdf>

Carl Ott

8:20 PM

Any experience with using the Microsoft Arduino extension in VS Code with Arduino CLI? I've used the Legacy Arduino IDE in the past, but looks like will migrate to the Arduino CLI. I see some guidance from Microsoft's <https://github.com/microsoft/vscode-arduino> Also found a SparkFun tutorial but it doesn't seem to use the Arduino Extension by Microsoft- <https://learn.sparkfun.com/tutorials/efficient-arduino-programming-with-arduino-cli-and-visual-studio-code/all>

Carl Ott

8:23 PM

Scott uses Visual GDB - nominal cost for hobby purposes but really smooth integration especially for debugging <https://visualgdb.com/>

Carl Ott

8:27 PM

Several folk mentioned using Platform IO - as pretty easy to set up and use...

Carl Ott

8:30 PM

caveats - have to name parent file .cpp, can't use .ino. Also have to deal with libraries / and be cautious (check the Platform I/O log to view what libraries you've added)
Reference Doug's Platform IO presentation to DPRG from 2022 or 2021...

Iron Reign

8:31 PM

<https://ironreignrobotics.org/coachcorner/chatGPTforRobots/>

Iron Reign

8:33 PM

<https://ironreignrobotics.org/coachcorner/chatGPT4forRobots/>

Carl Ott

8:33 PM

~8:31 - Karim shared experiments with current generation of AI tools specifically for First level robotics teams

Carl Ott

8:55 PM

~8:52 - Karim thinks the paid level will likely be worth it for the near future - perhaps as a research partner or other helper purposes...

Carl Ott

9:10 PM

Seems to me that Karim is doing his part to help with ChatGPT's operating costs. A quick search show that... \$700,000 a day Unbelievable Upkeep. ChatGPT's immense popularity and power make it eye-wateringly expensive to maintain, The Information reports, with OpenAI paying up to \$700,000 a day to keep its beefy infrastructure running, based on figures from the research firm SemiAnalysis.

Carl Ott

9:23 PM

~9:23 - Karim showed a real-time demo - retrying ChatGPT 3.5 (the free) with the same very detailed prompt he seeded ChatGPT4 with

Carl Ott

9:27 PM

and - the result showed a clear difference in quality between the two levels of ChatGPT.

Carl Ott

9:29 PM

~9:28pm - Doug showed his Steam Punk Robot making mechanical build progress...

Carl Ott

9:35 PM

<http://www.geology.smu.edu/~dpa-www/robo/dprg-12jun2021/dprg-talk.pdf> David Andersons presentation

Carl Ott

9:37 PM

Where to find DPRG Email List Archives <https://www.dprg.org/mail-list-archives/>

<https://www.dprg.org/?s=david+anderson>

<https://www.dprg.org/outdoor-rover-series-implementing-waypoint-navigation-by-david-anderson-dprg-virtual-monthly-meeting-jun-12th-2021/>

Carl Ott

9:39 PM

Here is David's presentation <https://www.dprg.org/outdoor-rover-series-implementing-waypoint-navigation-by-david-anderson-dprg-virtual-monthly-meeting-jun-12th-2021/>

Pat Caron

9:41 PM

Great meeting guys! See you Saturday.