

DPRG RBNV Meeting Summary – 10/20/26

<https://www.youtube.com/watch?v=NzOUsmbcBs0>

DPRG Club Business

RoboColumbus 2026 - There are about 4 weeks until the event. Are you ready? The annual competition date is set for Saturday, November 21st, moving one week earlier to avoid interference with Thanksgiving travel plans. Spectators are welcome to attend even if they do not have a robot entered in the contest. Reach out to Paul B or Mark R for event location details.

DPRG Oct Monthly Mtg - Saturday Oct 24th - Paul B will present "Learn TO Program a Robot with AI". Participants will get on hand experience on programming an Arduino robot using the Arduino IDE. The theory section is available to all. The hands-on session will be available for 10 participants. Please bring your own laptop.

Presenters

- **Mike W** - took his robot outside for testing. His GPS was giving him many problems, so he turned it off! He showed a plot of the robot on Foxglove. He had 20 satellites connected but the uncertainty around the GPS is HUGE! The gps_nav signal appears to be working well, but the Kalman filtered GPS value is way off! He also showed a new web page he created to start/stop his ROS robot.

Black star ★ (Significant progress)

- **Paul B** - Saturday he will present "Learn TO Program a Robot with AI". He has provided full details in the flyer at: <https://tinyurl.com/PicoAiBotFlyer> including required preparation - read carefully. He reviewed the schematic and showed the

"Interposer Board". He showed the process to get it working and demonstrated the robot running! Paul also mentioned that you are not limited to using Gemini or the Arduino IDE. You may change IDE's, AI programs or controllers if you wish, but help may not be available when things go wrong!

Gold star  (Autonomous Running) for Mark & Paul

- **Michael I** - played a video of his claw machine that he showed last week. This time he had the audio working!
- **Harold P** - discussed his post on Discord about some Pens he turned on his lathe. He is auctioning them off for Breast Cancer Month. Check out his post & eBay listings. He also showed some promotional materials he is giving away for his 5-Year Twitch Channel anniversary.
- **Kyle W** - discussed using Claude AI to design 3D printed brackets for parts such as a Buck Converter. He will present it next week.
- **Karim V** - discussed using Claude Code to design parts for his students' robot designs. It produces design requirements for further design in Fusion 360 as a Python script. He showed the designs and CAD files that it produced.
- **Scott H** - showed his Outdoor robot built on a Power Wheels Jeep Chassis. He is trying to get the code back up and running. It's been about 3 years since it ran. He discussed the controller stack mounted on the back rack of the Jeep.