

## **DPRG RBNV Chat Record – September 24, 2024**

Mickey Dean

7:31 PM

Hi guys

I have fallen asleep the last few meetings as it gets past my bedtime  
so I have had to rewatch the YouTube

Mickey Dean

7:34 PM

Karim? are you saying I can use an M8 as a base station at least  
doug paradis

7:38 PM

Carl, we should be recording.

You

7:39 PM

yeah

keep

Pin message

Mickey Dean

7:40 PM

i have killed too many Pis

Ponder SomeMore

7:42 PM

Mickey, yes

You

7:44 PM

~7:44pm - Ray continued a discussion on GPS RTK modules that he's been working with from Sparkfun

keep

Pin message

Mickey Dean

7:45 PM

Karim, I assume that was a response to using an M8 as a base station, that is good since I foolishly bought one

but I gather I need a Zed7P if I recall correctly for the RTK part on the rover

You

7:47 PM

~7:47pm - Ray showed live video of his setup

keep

Pin message

Ponder SomeMore

7:50 PM

i

I'm using a zf9p for rtk

Mickey Dean

7:51 PM

Karim I guess I am asking id I have wasted my money on the M8? if I can use it as a base station then I have not

Ponder SomeMore

7:53 PM

which version of m8?

Neo-m8p-2 seems to have both

Mickey Dean

7:54 PM

I will get back to you on Discord later, thanks for the follow-up

You

7:55 PM

Reminders as noted at the top of this meeting: Monthly Meeting this next Saturday 28 Sept 2024 With 2 presentations “How to Debug with JTAG” for microcontrollers and even the Raspberry Pi “ROS2 on Raspberry Pi Zero 2W” project – the cheapest way to experiment with ROS2. More details <https://www.dprg.org/category/news/>

keep

Pin message

RoboColumbus racing towards us 26 Oct in Ontario & 23 Nov in Dallas More details <https://www.dprg.org/robocolumbus-2024/>

keep

Pin message

Mickey Dean

7:56 PM

pretty sure mine is a CAM M8

so likely not going to work as a base station

was just hoping

Mickey Dean

8:08 PM

very useful, i still hate i was foolish enough to buy a GPS device without UNDERSTANDING what I needed

Mickey Dean

8:10 PM

sadly Virginia has not

Ted Meyers

8:15 PM

Ray\_thinks\_ that it is a "chick" magnet; in reality it is a "nerd" magnet; just look around

You

8:16 PM

Ted +1 or - maybe he just has to turn the magnet around so the poles point the other way?

keep

Pin message

Mickey Dean

8:21 PM

they are nice cleats

Mickey Dean

8:22 PM

i use an electrical cover plate too

it is a nice adapter

Mickey Dean

8:26 PM

so a mower would have an IMU issue, eh?

especially a gas-powered robot mower

Ponder SomeMore

8:31 PM

Vibration is a concern. there are mounting options (damping gel) that can address this

Mickey Dean

8:32 PM

ty Karim, i have investigated some of the methods but frankly not sure they could mitigate the vibration but i got to try

otherwise, i have to move to an EV mower

Mickey Dean

8:33 PM

and everything i have read gas is still more powerful

Ponder SomeMore

8:34 PM

no doubt about that

Mickey Dean

8:34 PM

Karim, do you use Claude?

Mark R

8:34 PM

Claude is one of my current favorites

Mickey Dean

8:35 PM

I am more impressed with the code Claude gives me

Mark R

8:35 PM

100%

Mickey Dean

8:35 PM

Mark, :)

Ponder SomeMore

8:35 PM

I'm pretty happy with ChatGPT - particularly o1-preview

Mickey Dean

8:35 PM

01 preview is nice

the CoT alone

coT is a game changer

CoT

You

8:37 PM

background on ChatGPT o1-Preview <https://openai.com/index/introducing-openai-o1-preview/>

keep

Pin message

Mickey Dean

8:37 PM

junior developers are going to be looking to jobs

for jobs

Mickey Dean

8:38 PM

lol carl

You

8:39 PM

Queue Karim Tom John K Carl Open mic

keep

Pin message

Mark R

8:40 PM

Just feed the results into <https://goblin.tools/Formalizer> and set it to 'more sarcastic' lol

You

8:41 PM

~8:41pm- Karim showed a Rpi stack up with MME board on top - and has now corrupted it somehow. mounted to a wave-rover

keep

Pin message

refer to the Discord channel

keep

Pin message

Mark R

8:48 PM

<https://a.co/d/3VLB9Q8> still at \$99

Mickey Dean

8:52 PM

Karim, what is max amp

Mark R

9:04 PM

Waveshare have so many great toys

You

9:05 PM

Refer to Discord / Member Projects / for Karims Waveshare Writeup

keep

Pin message

Ponder SomeMore

9:05 PM

by max amp i was just talking about stall amps for a given motor

Ponder SomeMore

9:06 PM

here's the link to my gps rtk notes:

<https://docs.google.com/document/d/1ASOmjeLvpy5IoUMK5oWiDU-RkHOjUReeAy883STYLiY/edit?usp=sharing>

You

9:07 PM

~9:05pm - Tom gave an update - progress taking a cheap radio controlled toy truck to be controlled by a single chip computer...

keep

Pin message

Mark R

9:07 PM

I need to drop, have a good evening all, see you Saturday

Ray Casler

9:07 PM

thanks Karim

You

9:13 PM

~9:12pm - John K showed a fun server robot concept

keep

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You

9:16 PM

Carl – found a cool looking new board based on RPi Cytron Motion 2350 Pro RP2350, 4 motor drivers, 8 servos, grove connectors, etc... <https://www.tomshardware.com/raspberry-pi/raspberry-pi-pico/cytron-motion-2350-pro-review> \$24.90 at <https://www.cytron.io/p-motion-2350-pro>



keep

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Ponder SomeMore

9:20 PM

I have a question for Doug based on prior discussion