

DPRG RBNV Chat Record – Aug 28, 2021

Carl Ott

7:39 PM

Hackathon!!! 1-3 Oct 2021 <https://hackdfw.com/>

Robots New Zealand

7:42 PM

Personal Robotics on Discord <https://discord.gg/F4U9Z9Sg> <aged link- need to ask for a new one>

Paul Bouchier

7:43 PM

Rocos is the NZ robot comms company we worked with

Carl Ott

7:45 PM

~7:43pm David Anderson- reviewing results of PID response analysis gave last week- showing whether "overshoot" was result of PID loop underdamping or inertia feeding back into the current loop

Ray Casler

7:58 PM

Dave did you tune to be critical damped?

Carl Ott

8:00 PM

~ 7:58pm - discussion continued with a simple approach to tune a PD controller

Ray Casler

8:02 PM

a tiny dancer, a dancer for money ...

Ray Casler

8:07 PM

The method I use is very complex.. I push the auto tune button the roboclaw gui...

Carl Ott

8:07 PM

@Ray - hahahahaha

Carl Ott

8:09 PM

~8:09pm - David Ackley showed his Chassis Dynamometer - for adding a load for tuning for PID tuning

Carl Ott

8:18 PM

~8:18pm - Murray - discussion on the Personal Robotics Discord - about having Murray work on a custom motor controller board...

Carl Ott

8:21 PM

motivations - lower cost- embedded PID loop in MicroPython - with an I2C interface plus - leverage collaborative effort to get something aligned with personal targets

Carl Ott

8:23 PM

~8:22pm - Murray showing progress towards his Mars Rover - showed a 4 wheel platform...

Carl Ott

8:25 PM

~8:23pm Murray showed progress towards custom Python OS- servo vs. ballistic behaviors. Has added a scheduling macro e.g. list of events or Python lambdas...

Ray Casler

8:28 PM

So it is not hat day in New Zealand?

Ponder SomeMore

8:29 PM

These have exploded recently

https://www.amazon.com/s?k=gimbal+stabilizer+for+smartphone&crd=2G2E5LLSRS5Q4&srefix=gimbal%2Caps%2C196&ref=nb_sb_ss_ts-doa-p_4_6

Carl Ott

8:32 PM

~ 8:30 - Carl showed demo of 3 axis stabilized phone tripod.. <https://www.snoppa.com/index.html>

Thalanayar Muthukumar

8:33 PM

https://www.amazon.com/DJI-CP-TL-00000026-02-Tello-EDU/dp/B07TZG2NNT/ref=sr_1_3?dchild=1&keywords=dji+tello&qid=1632879187&sr=8-3

129\$ with gesture recognition

Ponder SomeMore

8:35 PM

we're talking

we can hear and see you

Carl Ott

8:38 PM

~8:36pm- Harold and Kumar discussed ExoMy lessons learned - setting up the project using a Docker container...

Carl Ott

8:41 PM

~8:41pm- Harold showed side project for person at work- a Smash Button to use as an OBS controller (ie. for video streaming)

Carl Ott

8:52 PM

~8:48pm- Chris talked about code cleanup & made things to document his robots... showed a diagram / for interconnections...

Carl Ott

9:06 PM

also discussed rationale for system architecture - e.g. why have QtPy for data collection as a middleman between RPi and several sensors...

Carl Ott

9:08 PM

~9:06pm- John K showed a 3D Printed Klann Linkage

Walker <https://www.thingiverse.com/thing:4971263>

Carl Ott

9:09 PM

also showed a jumping robot <https://www.thingiverse.com/thing:4976714>

Carl Ott

9:13 PM

~9:12pm - Michael Ivison- recently retired - built a new metal shed / man-cave - will be building more robots in it...

Carl Ott

9:15 PM

@michael - some EMI enclosure materials https://www.3gshielding.com/?gclid=CjwKCAjw-sqKBhBjEiwAVaQ9a5bGWHqH_A8H2Yrx7FbcQSHKPUbHzLca8M58cHpM2yjcIV4MXvxOyBoCjdIQAvD_BwE

Chris N

9:16 PM

Its getting late for me.... See you all next week!

Pat Caron

9:17 PM

See you next week!

Carl Ott

9:19 PM

~9:17pm- Carl asked about the OAK--D.LITE camera / on Kickstarter - whether / why to pick fixed focus vs. auto-focus...

<https://www.kickstarter.com/projects/opencv/opencv-ai-kit-oak-depth-camera-4k-cv-edge-object-detection/description>

Thalanayar Muthukumar

9:31 PM

Need to drop