

## DPRG RBNV Chat Record – March 19, 2024

Mickey Dean  
7:35 PM  
Welcome Bradley  
Mickey Dean  
7:40 PM  
gtsy Jon  
Jim F - CalgaryAB  
7:40 PM  
Hello from Calgary Alberta Canada YYC  
Ted Meyers  
7:40 PM  
Hello from Colorado  
Mickey Dean  
7:41 PM  
welcome Ted and Jim  
Ted, i might want to pick your brain on adding encoders to rc motors.  
Mickey Dean  
7:42 PM  
This year I am definitely addiing encoders.  
Ted Meyers  
7:42 PM  
Encoders are a huge addition to any bot!  
Mickey Dean  
7:43 PM  
yeah, but rc motors tend to have shorter shafts.  
Ted Meyers  
7:44 PM  
In my opinion, quadrature encoders are the way to go. You can put optical disks on a wheel, or magnets.  
Ray Casler  
7:45 PM  
it is probably a bag of weed.  
Ted Meyers  
7:45 PM  
or add disks/magnets to gears.  
Carl Ott  
7:45 PM  
Note for this Saturday's Hybrid meeting 23 March / online & at Dallas Makerspace  
DPRG Monthly Meeting / Robot Run / Show & Tell Default -> 4th Saturday at Dallas Makerspace in North Lobby  
Classroom Sat March 23 / 10am - 2pm KABAM Robotics Presentation  
Mickey Dean  
7:46 PM  
ted, thanks for the ideas.  
Carl Ott  
7:47 PM  
Dallas Makerspace Link to this Saturday's hybrid meeting w/ Special Presenter KABAM Robotics  
- <https://calendar.dallasmakerspace.org/events/view/21470>  
Mickey Dean  
7:47 PM  
AWESOME PAUL  
Carl Ott  
7:48 PM  
DPRG's native post on the upcoming 23 March meeting - this includes the virtual link to  
join <https://www.dprg.org/dprg-monthly-meeting-kabam-robotics-presentation-march-23-2024/>  
Paul gave background on a significant upgrade to the DPRG mail server, and also to a new Discord server.  
Mickey Dean  
7:50 PM  
definitely looking to be a beta tester Paul

Carl Ott  
7:50 PM  
Discussion Queue Mike W Jon H  
Mickey Dean  
7:50 PM  
i am a Discord fan.  
Carl Ott  
7:52 PM  
~7:51pm - Mike W did a demo of his 6-can robot controlled by ROS.  
Paul Bouchier  
7:54 PM  
Mike showed rviz displaying the output of the robot's TOF sensors.  
Jon Hylands  
7:55 PM  
SLAM == Simultaneous Localization and Mapping  
Scott Gibson  
7:56 PM  
SLAM Simultaneous location and mapping.  
Carl Ott  
7:58 PM  
~7:57PM - after talking through the robot tech - Mike started a demo / and was immediately greeted by "demo effect"  
- which required a little more initialization (all else fails / cycle power)  
Mickey Dean  
7:59 PM  
Mike nice progress  
and fast progress Mike  
Carl Ott  
8:00 PM  
GOLD STAR  
Pat C  
8:00 PM  
Great job Mike!  
Mickey Dean  
8:01 PM  
lol  
lol  
Carl Ott  
8:02 PM  
Black Star for technical achievement - 1st ROS to do the 6-can contest.  
Jim F - CalgaryAB  
8:03 PM  
  
Congrats Mike cheers 🙌  
Mickey Dean  
8:03 PM  
ROS is ROS though.  
Carl Ott  
8:03 PM  
Here are the rules for DPRG's 6-Can Competition <https://www.dprg.org/wp-content/uploads/2019/01/sixcan-20190119.pdf>  
You can find DPRG's master list of contests & challenges here <https://www.dprg.org/contest-rules/>  
Carl Ott  
8:04 PM  
And here is a link to DPRG's upcoming contest - Roborama 2024 <https://www.dprg.org/roborama-2024/>  
Carl Ott  
8:12 PM  
Ray - I muted you...  
Mickey Dean  
8:16 PM

Likely the double stream

Mickey Dean

8:17 PM

not a waste

it was progress.

Carl Ott

8:18 PM

Discussion Queue Mike W (demo) Jon H Open Mic

Mickey Dean

8:18 PM

great progress mike

Mickey Dean

8:19 PM

<big Grin> Jon

so cool jon

Paul Bouchier

8:20 PM

Jon talked about advances on his wearable robot configurer.

Mickey Dean

8:21 PM

tooo cool

Mickey Dean

8:25 PM

Jon, so impressive

Paul Bouchier

8:29 PM

Jon runs a web server on robot configurer (webdot - similar to flask) that can connect to phone over Wi-Fi. Phone pulls page from configurer. You can touch a point on Google Maps as a waypoint, and a JavaScript app on phone pulls the waypoint from Google Maps using a Maps API and sends the waypoint to the robot configurer which can relay it to the robot.

Mickey Dean

8:30 PM

jon, awesome progress

Mickey Dean

8:33 PM

S;ash?

ahhh

nice

very nice

too pricey for me, I am just working with a deadbolt.

Mickey Dean

8:34 PM

yeah, capra have great rutn ratios.

turn

nice rig

Mickey Dean

8:36 PM

comp ready.

Paul Bouchier

8:39 PM

Jon reviewed his rock-crawler RoboMagellan robot. FOC motor can run slow or faster than you can run.

Mickey Dean

8:39 PM

Jon, do you think you could make the ring more comfortable?

Carl Ott

8:39 PM

Black Star for Jon - for hooking up Google Maps to an ESP32

Paul Bouchier

8:40 PM

Jon - Black Star for technical advancement hooking ESP32 up to Google Maps for waypoint setting and display at a distance.

Mickey Dean

8:40 PM

Carl, I vote Bronze.

Paul, I meant, I need my glasses.

Mickey Dean

8:41 PM

Jon, could you come up with some sort of silicon padding on the ring?

Mickey Dean

8:43 PM

Jon, what is the main discomfort point for you though.

So, it is the ring size itself.

not the button.

I thought maybe the button was the friction point for you.

Jon Hylands

8:44 PM

the button is.

Jon Hylands

8:46 PM