

DPRG Feb Monthly Meeting Chat Record – 2/13/2021

Jesse Brockmann

1:03 PM

hello ted! :)

Charles Sun

1:04 PM

I am from SF Bay Area

Carl Ott

1:09 PM

Baseline "RoboColumbus-Plus" See <https://www.dprg.org/contest-rules/> <https://www.dprg.org/wp-content/uploads/2018/09/robocolumbusplus-20150726.pdf>

David Anderson

1:12 PM

<http://www.geology.smu.edu/dpa-www/robo/jbot>

Ray

1:26 PM

Do you use the magnetometers in the imu?

Karim Virani

1:28 PM

i think that's probably why he mounted it on a mast

David Anderson

1:28 PM

yes

Karim Virani

1:29 PM

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

Ray

1:44 PM

Beware fleshy shins!

Ray

1:50 PM

Death wish 2000 with David Caradine?

Ray

1:55 PM

Did anyone look at a wild thumper chassis?

Jesse Brockmann

2:01 PM

<https://www.sparkfun.com/products/11056>

Ron Grant

2:08 PM

<https://www.youtube.com/watch?v=ZqMtcIW3ZeQ>

Simulated 6 Wheel robot up and down stairs

Working on Robot Simulator here and there

David Anderson

2:09 PM

http://www.geology.smu.edu/dpa-www/robo/jbot/jbot_steps_004.mpg

http://www.geology.smu.edu/dpa-www/robo/jbot/jbot_steps_004.mpg

Ron Grant

2:11 PM

OK, David's Real Robot is better. :(

Ray

2:26 PM

Matt Droter - were you at earth day 2019 with an agricultural robot?

Ray

2:27 PM

Earth day Dallas Texas...

Karim Virani

2:28 PM

can you copy the current set of questions here?

Ray

2:30 PM

I think osha is Texas is optional..

Karim Virani

2:38 PM

obstacle shmobstacle

Ray

2:43 PM

Matt Droter are you the founder of ROS Agriculture??

Carl Ott

2:44 PM

Karim- thanks -good idea - questions 6A

What do you think about Auto-Pilots? DIY vs. Off-The-Shelf vs. Some Other approach e.g. the short path to navigate Recommendations for data fusion w/ GPS DIY vs. Off-The-Shelf Which method do you like

Describe your rover's obstacle avoidance strategy. What is your main controller?

Karim Virani

2:52 PM

just a heads up, i have to bail at 3pm

Ron Grant

2:53 PM

Thanks Karim!!!

David Anderson

2:54 PM

www.geology.smu.edu/dpa-www/robo/jbot/jbot-cones-20160424-01.mpg

Carl Ott

2:54 PM

o spiral search to try and find the orange cone

panning down slows the robot

Carl Ott

2:56 PM

what are your favorite parts / brands? why do you like them? Describe your sensor suite, what sensors are included?

that was question 7

Ray

2:57 PM

Banggood, amazon, aliexpress...

Karim Virani

2:58 PM

<https://www.revrobotics.com/>

Ted Meyers

2:59 PM

3D printed parts (PLA & flexible)

Carl Ott

2:59 PM

we've also heard votes for Delrin

Karim Virani

2:59 PM

I buy mostly from Amazon, REV, Sparkfun, Pololu, Mouser

Thanks all! Bye.

Pat Caron

3:00 PM

What type of ultrasonic sensors are you using to detect chain link fence?

Carl Ott

3:02 PM

question #8 / "Most Difficult Thing"

What was the most difficult problem you had to overcome what was it what made it difficult what did you try ow did it work

Carl Ott

3:09 PM

question 9 / 'evaluating a potential build'

<https://esa-prl.github.io/ExoMy/> <https://github.com/esa-prl/ExoMy/wiki/System-Overview> What are your first impressions? What looks good about it? What would concern you about it? What questions would you ask to evaluate it?

Ted Meyers

3:10 PM

A deadline is the most important piece to finishing.

Ted Meyers

3:20 PM

I find quadrature encoders are a big improvement as they give you direction and don't get bad readings when stopped.

Carl Ott

3:22 PM

David - thanks for recommending - Eagle Tree Data Loggers <https://www.eagletreesystems.com/> also used for model helicopters

doug paradis

3:22 PM

Eagle Tree?

David Anderson

3:45 PM

yes