

DPRG April 10, 2021 Monthly Meeting Chat Record

Charles Sun

1:06 PM

SF Bay Area

You

1:19 PM

Background for DPRG Housekeeping / Upcoming Plans

Michael Shimniok

1:19 PM

Troubled Child rover - <https://www.bot-thoughts.com/2014/06/avc-sharc-fsv.html>

You

1:19 PM

DPRG Housekeeping / Upcoming Plans

Michael Shimniok

1:19 PM

Tad was on our team too :)

You

1:19 PM

17 April- Virtual Judge Volunteer Opportunity Help Iron Reign host "Townview Remote Qualifier" FIRST competition Volunteer as a judge

here: <https://my.firstinspires.org/Volunteers/Wizard/Search/2?EventId=55158> 8am to 4pm time

commitment. You need to register on the national website. Great way to support the next wave of enthusiasts. You don't need to leave your home. The entire event is on Zoom. The robot game intro is

here: https://www.youtube.com/watch?v=zYS0--eeUCM&ab_channel=FirstUpdatesNo

12 June- How to do navigation w/o making a map David Anderson Updated from compiled & published in the Seattle Robotics Society some years ago 10 July- ??? Presentation Open Any Requests /

Volunteers? Outdoor Rover presentation? 21 August Outdoor Rover Competition Baseline

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

Ted Meyers

1:20 PM

Yep, Working on Trubled Child was a blast!

Michael's code was beautiful

Ted Meyers

1:21 PM

true, it was questionable, but worked!

And we has a kill switch connected to the brakes

Michael Shimniok

1:22 PM

top speed was like 3-5mph I think :)

Ted Meyers

1:24 PM

Troubled Child drove at idle speed

Michael Shimniok

1:27 PM

I remember the epic rivalry Between JROver and Minuteman!

Ted Meyers
1:27 PM

Minuteman was quite impressive at jumping the ramp.

Michael Shimniok
1:28 PM

It was like Ford vs Ferrari

Ted Meyers
1:36 PM

It looked really hard in RC mode! Very Impressive to complete!

Ted Meyers
1:49 PM

Michael has some experience with the paper wheel system

Michael Shimniok
1:55 PM

I even recently updated my application for generating /printing paper encoders

Michael Shimniok
1:57 PM

in case anyone finds it useful <https://github.com/shimniok/WheelEncoderGenerator>

Ron Grant
1:58 PM

Hello Everyone. Great Presentation, Jesse! - Sorry to have to leave today and sorry to be late joining. Will enjoy watching recorded presentation later.

You
1:58 PM

Thanks for the reference Michael!

Ted Meyers
2:05 PM

My experience with the TFmini in bright sunlight is around 2-3 meters max
doug paradis

2:10 PM

Here is additional data with the TFmini I presented at Apr 2018 DPRG monthly meeting
<https://www.youtube.com/watch?v=Mn-0s5Rb1M&t=21s>

You
2:13 PM

a quick internet search showed this 3D flash lidar - 160x60, for \$372... <https://www.robotshop.com/en/hypersen-solid-state-lidar-8m-3d-point-cloud-160x60.html>

Ray
2:14 PM

xbox 360 \$15 at goodwill but for indoor use only

You
2:16 PM

We have some participants to DPRG who build a project using Walabot, connecting that to an Amazon

Echo

Ray
2:16 PM

Is there a price on the ti radar?

You
2:17 PM

the Walabot is apparently very friendly to hackers, and comes in several resolution grades / costs

Ray

2:18 PM

d435i I think the imu is a bno055...

Michael Shimniok

2:33 PM

+1 on Digole. Customer service was good (this was back in 2012-14)

Ian Potter

2:42 PM

this has been great. but i have to go.

Michael Shimniok

3:04 PM

Here's my main pure pursuit writeup https://www.bot-thoughts.com/2014/02/avc-path-following_27.html

Michael Shimniok

3:07 PM

My Processing sim code here: <https://github.com/shimniok/bot-thoughts-ugv/tree/main/Software/Analysis/DataBusSim>

You

3:12 PM

Michael - thanks very much - looks very cool...

Michael Shimniok

3:23 PM

That sounds Waaaaay more awesome than when I tried the course years ago. wow.

Michael Shimniok

3:31 PM

I think this is it? <https://www.ti.com/sensors/mmwave-radar/overview.html>

You

3:43 PM

Here are some videos from DPRG RoboColumbus contests in the past <https://www.youtube.com/user/DPRGclips/search?query=robocolumbus>

You

3:48 PM

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

David Anderson

3:59 PM

jBot finding cones: <http://www.geology.smu.edu/dpa-www/robo/jbot/20140923-jbot-3.mpg>

Michael Shimniok

4:02 PM

cool video & robot, David!

David Anderson

4:07 PM

Good presentation Jessie. See you guys next week.