

DPRG July 2020 Monthly Meeting Chat Record

00:03:25.739,00:03:28.739

Harold Pulcher: You are good

00:04:02.707,00:04:05.707

Harold Pulcher: I can attest to that.....

00:09:29.353,00:09:32.353

Harold Pulcher: That is really cool. The hardware version of the L in solid

00:12:44.608,00:12:47.608

Mary Mathias: So ROS basically makes it modular for swapping out one robotic arm to another, right?

00:13:00.100,00:13:03.100

Pure Sol: ROS is open source right?

00:13:06.680,00:13:09.680

Ponder SomeMore: i got burned by rds

00:13:26.012,00:13:29.012

Ponder SomeMore: monetize

00:14:06.832,00:14:09.832

Harold Pulcher: Yep... check out ros.org

00:15:04.279,00:15:07.279

Mary Mathias: Do you think the Wowee robots work with ROS1?

00:15:20.747,00:15:23.747

Pure Sol: I am just bumped with a question, is it anything related to what kids attend for robotics classes etc

00:16:15.860,00:16:18.860

Carl Ott: So it seems that ROS provides an excellent adaptation layer - the ability to use 'de facto' standards based APIs for different components to interact. Is that a fair statement?

00:16:40.385,00:16:43.385

Ponder SomeMore: ROS tends to be college level - learning curve is a bit steep for younger students other than exceptional high schoolers

00:17:29.185,00:17:32.185

Ponder SomeMore: how soon to ROS 2?

00:18:25.061,00:18:28.061

Dave Ackley: How does ROS compare to MTTQ

00:20:41.650,00:20:44.650

Lou Amadio: <https://aka.ms/ros>

00:20:45.497,00:20:48.497

Lou Amadio: <https://aka.ms/ros/docs>

00:21:02.027,00:21:05.027

Ponder SomeMore: sorry, I meant how soon to feature parity ROS1 vs 2?

00:22:36.477,00:22:39.477

Carl Ott: can ROS1 modules be used /ported on ROS2?

00:23:24.560,00:23:27.560

Carl Ott: is ROS just a pub/sub system, or does it have things which make it really well tailored to robots?

00:23:31.305,00:23:34.305

Ray: Is there a port to a rpi4 or is it under powered?

00:23:59.968,00:24:02.968

doug paradis: How difficult is it to move a node from ROS 1 to 2?

00:24:07.245,00:24:10.245

Harold Pulcher: I have ros2 core stuff on my rpi4 now

00:25:54.872,00:25:57.872

doug paradis: Harold, are you using linux or Win on your Rpi

00:26:44.068,00:26:47.068

Harold Pulcher: Linux... win 10 iit on a rpi4 aint really happening atm.

00:26:59.772,00:27:02.772

Harold Pulcher: Iot

00:27:34.262,00:27:37.262

Harold Pulcher: Yeah no bsp

00:27:52.571,00:27:55.571

Ponder SomeMore: is that the same reason Android Things isn't going forward on pi4?

00:34:53.451,00:34:56.451

Ray: How much does it cost?

00:35:11.527,00:35:14.527

Carl Ott: <https://techcrunch.com/2019/07/11/microsofts-399-azure-kinect-ai-camera-is-now-shipping-in-the-u-s-and-china/#:~:text=The%20%24399%20Azure%20Kinect%20DK,in%20a%20relatively%20small%20package.>

00:35:45.630,00:35:48.630

Molly X. GvH: Do you have a beta testing/working group for Azure Kinect DK ROS?

00:37:14.942,00:37:17.942

Ponder SomeMore: we can't hear the dog

00:37:17.475,00:37:20.475

Carl Ott: does ONNX work with tinyML?

00:39:22.250,00:39:25.250

Mary Mathias: Cloud to ground, with all the layers, how fast is the return of information? Is there a lag?

00:42:05.247,00:42:08.247

Dave Ackley: How does one get access to <http://aka.ms>? Request Id: 2a2598bd-e5c7-407f-af6c-79b9e1f22600

Correlation Id: 359b6112-5db7-4bd3-84c2-a7a369aac394

Timestamp: 2020-07-11T18:47:35Z

Message: AADSTS50020: User account 'dackley@verizon.net' from identity provider 'live.com' does not exist in tenant 'Microsoft' and cannot access the application '405e80fc-f8e6-40e6-b6b9-e5bcc7e6813e' (RedirectionUxProd) in that tenant. The account needs to be added as an external user in the tenant first. Sign out and sig

00:42:59.967,00:43:02.967

Harold Pulcher: That is a link shirtener

00:43:15.516,00:43:18.516

Harold Pulcher: Aka.ms/ros

00:46:17.199,00:46:20.199

Harold Pulcher: I hate typing on the phone...

00:51:36.330,00:51:39.330

Ron Dagdag: that's cool!

00:51:51.186,00:51:54.186

Harold Pulcher: So cool

00:51:56.919,00:51:59.919

Molly X. GvH: Very "Kick-Butt SHMEKIN!"

00:54:45.565,00:54:48.565

Ponder SomeMore: very nice!

00:54:55.418,00:54:58.418

Carl Ott: Fantastic Preso -thanks!

00:55:03.905,00:55:06.905

Ponder SomeMore: so your recommendation is if you are starting now, go with ROS2?

00:55:06.563,00:55:09.563

Carl Ott: Could we talk about 'simple' ways to get started with ROS?

00:55:16.420,00:55:19.420

Molly X. GvH: Thank you Lou!!

00:57:46.867,00:57:49.867

Lou Amadio: <http://www.robotis.us/turtlebot-3/>

00:58:11.669,00:58:14.669

Ray: Don't we have a turtle bot 1??

00:58:16.396,00:58:19.396

Mary Mathias: How far is the Agricultural industry into ROS right now?

00:58:21.513,00:58:24.513

doug paradis: Is there a "A gentle introduction to ROS" type book for ROS 2?

00:58:33.799,00:58:36.799

Lou Amadio: <https://ms-iot.github.io/ROSONWindows/ros2/nav2.html>

00:59:52.360,00:59:55.360

Marta Soncodi: Are there simulators that you can program in?

01:01:07.171,01:01:10.171

Ponder SomeMore: think of ROS as a way of composing lower level behaviors and sensing

01:03:19.042,01:03:22.042

Mary Mathias: I actually meant... is Microsoft working with the farming and cattle industry via Dynamics and ROS?

01:04:28.536,01:04:31.536

doug paradis: I think that many of us would like to have the robot self contained (using more advanced sensors (camera, lidar, etc...) running on either Rpi or Nvidia on board (putting up with os latency). Whenever you add wifi things get quirky (due to latency).

01:06:59.707,01:07:02.707

Mary Mathias: Oh, does Udemy perhaps have ROS courses?

01:07:58.725,01:08:01.725

Lou Amadio: https://www.youtube.com/channel/UCL7wy-iy_V76xxPnrIzGOZQ

01:11:12.556,01:11:15.556

Ron Dagdag: just want to share, it looks like a good course
<https://www.robotigniteacademy.com/en/course/ros-in-5-days/details/>

01:11:17.606,01:11:20.606

Lou Amadio: <http://www.robotis.us/turtlebot-3/>

01:14:09.088,01:14:12.088

Ray: What happened to the DPRG turtlebot? Can it be upgraded so someone can use it to explore ros if they wanted to?

01:14:39.230,01:14:42.230

doug paradis: I think it is in storage at DMS.

01:15:18.273,01:15:21.273

doug paradis: It is based on iCreate (roomba) based

01:20:08.849,01:20:11.849

david: Lou, great presentation, thank you. I noticed that the talk didn't actually include any, ya know, robots. Can you show us a video of a ROS robot doing something amazing so as to justify all the complexity?

01:20:19.467,01:20:22.467

Lou Amadio: <https://maker.pro/arduino/tutorial/how-to-use-arduino-with-robot-operating-system-ros>

01:20:54.458,01:20:57.458

Lou Amadio: <https://www.youtube.com/watch?v=dfWJvUtkJvQ&t=57s>

01:21:13.942,01:21:16.942

Lou Amadio: <https://www.youtube.com/watch?v=wPzMqAj9X0s&t=1s>

01:21:25.013,01:21:28.013

Ponder SomeMore: how much time do you think it will it take you to write the "HAL" for your HERO?

01:24:23.938,01:24:26.938

Mary Mathias: Your day job is way too much fun....

01:24:47.647,01:24:50.647

doug paradis: When do you think ROS 1 will be sunset

01:26:04.291,01:26:07.291

Mary Mathias: Thank you, Lou, such a great presentation! ... can you just adopt us? :-)

01:26:04.633,01:26:07.633

david: you are double integrating the velocities from an IMU to get odometry position?

01:26:52.355,01:26:55.355

david: fusing with what?

01:27:51.798,01:27:54.798

david: yes

01:30:10.469,01:30:13.469

Ponder SomeMore: what imu are you using?

01:30:24.970,01:30:27.970

Harold Pulcher: I have run... thanks again lou!!!!

01:31:01.183,01:31:04.183

Ponder SomeMore: is that the BNO055?

01:34:21.675,01:34:24.675

Marta Soncodi: Thank you, Lou. A great weekend, All!

01:34:28.030,01:34:31.030

Mary Mathias: Doesn't full navigation and bot identification of its location all still all boil down to more sensors, more sensor information integration, and pure processing power & speed?

01:36:33.047,01:36:36.047

doug paradis: I have to leave, Thank you Lou, a great presentation!

01:38:22.926,01:38:25.926

Ponder SomeMore: Lou, where are you based? Roughly. Don't need a GPS RTK fix.

01:40:25.675,01:40:28.675

Molly X. GvH: Excellent Ron!! :)

01:42:12.827,01:42:15.827

david: simulations are doomed to succeed (R/ Brookes)

01:42:48.966,01:42:51.966

Ray: My wife would gladly give up the task of cleaning the cat's litter box to a robot..

01:43:12.505,01:43:15.505

david: That's Rodnet Rookes

01:43:17.928,01:43:20.928

david: Brookes

01:43:23.423,01:43:26.423

david: Rodney

01:44:38.310,01:44:41.310

Mary Mathias: We just don't want to do housework and chores!! lol

01:48:55.104,01:48:58.104

Carl Ott: <https://www.meetup.com/Hackster-DFW/events/271473567/>

01:49:16.476,01:49:19.476

Carl Ott: <https://www.meetup.com/Hackster-DFW/events/271781618/>

01:52:49.916,01:52:52.916

Molly X. GvH: Thank you Carl! Thank you Ron!

01:54:58.731,01:55:01.731

david: carl, can you unmute 940 390 1950?

01:59:50.658,01:59:53.658

Clayton Timmons: David - Can you post a link to video?

02:00:17.467,02:00:20.467

Molly X. GvH: Yes Can you please post a link to the video. I have a hard stop in 5 min

02:00:41.781,02:00:44.781

Molly X. GvH: TY David!

02:02:19.226,02:02:22.226

Carl Ott: Molly - You're quite welcome - feel free to join anytime!

02:02:20.308,02:02:23.308

Ponder SomeMore: different vlc window

02:02:35.996,02:02:38.996

Clayton Timmons: I wonder if everyone mutes their video feed if that would help

02:02:45.692,02:02:48.692

Ponder SomeMore: you're presenting the old vlc window