DPRG RBNV Chat Record – July 16, 2024

00:03:39.841,00:03:42.841

Mickey Dean: solid resolution

00:04:09.909,00:04:12.909

Pat Caron: Jon is working on the outdoor robot for our fall competition. He has mounted a GoPro camera and is capturing data from an Oak-D-Lite. He is using Depth AI to provide feedback

00:05:37.128,00:05:40.128

Pat Caron: He is channeling RC data through esp-32 to provide control through RC if required.

00:08:15.162,00:08:18.162

Pat Caron: He created a ServoDecoder library to capture RC signal timing and convert it to microsecond values.

00:11:30.993,00:11:33.993

Pat Caron: He described how he uses the left/right cameras to create depth maps with regions of interest.

00:12:38.963,00:12:41.963

Pat Caron: Jon, we can't here you

00:12:49.824,00:12:52.824

doug paradis: Jon, your mic isn't working

00:15:13.768,00:15:16.768

Mickey Dean: Jon, impressive as heck

00:15:59.248,00:16:02.248

Jon Hylands: https://www.youtube.com/watch?v=eux7WhSkJ4Q

00:16:40.686,00:16:43.686

Jon Hylands: https://github.com/JonHylands/crawler

00:27:28.224,00:27:31.224

Mickey Dean: what a great time to build robots!

00:28:37.693,00:28:40.693

Mickey Dean: good info jon

00:29:41.174,00:29:44.174

Pat Caron: Harold, I muted you

00:30:23.681,00:30:26.681

Mickey Dean: Pat, i thought the same, so this was great info

00:30:34.334,00:30:37.334

Jon Hylands: https://www.aliexpress.com/item/1005006051651136.html

00:30:59.295,00:31:02.295

Paul Bouchier: Jon is using an STM32F405 to do quadrature encoder counter and R/C PWM pulse width measurement

00:33:40.765,00:33:43.765

Pat Caron: Mike is working on his RC car mux signals using an RC mux board. His mux board broke the serial feedback to his RC transmitter.

00:34:50.487,00:34:53.487

Pat Caron: His RC receiver is stuck in regular RC mode without feedback

00:37:26.948,00:37:29.948

Pat Caron: He is working on a new computer board for the robot. He chose a PRI5 as it's only $5 more than a PI4

00:39:14.507,00:39:17.507

Pat Caron: He is trying to get graphics working on the PI so he can watch on his phone instead of a laptop

00:41:08.680,00:41:11.680

Pat Caron: He's also working on an Oak-D-Lite for Moon Day. He is having problems with instability

00:41:32.391,00:41:35.391

Ponder SomeMore: a rabbit hole / smorgasbord of papers at a recent computer vision conference:

https://learnopencv.com/cvpr2024/

00:47:14.775,00:47:17.775

Jon Hylands: https://linuxconfig.org/how-to-enable-x11-forwarding-on-raspberry-pi

00:49:53.134,00:49:56.134

Pat Caron: Paul is completed the online training for OnShape. Wanted to know if multipart Studio to extrude parts from Parts Studio

00:55:33.422,00:55:36.422

Pat Caron: John K discussed Moon Day and what he was bringing to setup.

00:55:58.384,00:56:01.384

Pat Caron: Doug P mentioned bringing LOTS of robots.

00:56:44.671,00:56:47.671

Pat Caron: He also said to bring a cart if you have one to facilitate moving stuff to/from the event area

00:58:46.296,00:58:49.296

Pat Caron: He also mentioned to bring a display card describing your project

01:01:48.374,01:01:51.374

Pat Caron: Harold you're muted!

01:06:34.547,01:06:37.547

Pat Caron: Doug P showed the business cards created for Moon Day

01:08:12.958,01:08:15.958

Pat Caron: He showed a graph of Sainsmart testing of the Raspberry Pi AI module benchmarking

01:12:21.762,01:12:24.762

Pat Caron: He mentioned a soldering kit to practice surface mount soldering from Electronoobs

01:12:50.563,01:12:53.563

Paul Bouchier: I gotta go

01:25:29.959,01:25:32.959

ed mart: A few photos for next Tuesday meetup would be great!

01:28:05.485,01:28:08.485

doug paradis: YouTube channel is DPRGclips

01:28:12.806,01:28:15.806

Ponder SomeMore: https://www.youtube.com/user/dprgclips

01:29:03.752,01:29:06.752

Pat Caron: Abdullah wanted to know how he could get a recording of the meeting to review later.

01:30:38.446,01:30:41.446

Ponder SomeMore: dprg.org

01:30:41.952,01:30:44.952

Mike Williamson: www.dprg.org