DPRG RBNV Chat Record – October 8,2024

Gold stars for Karim & Pat

Chat

====

00:04:27.039,00:04:30.039

Paul Bouchier: Q: Karim, Harold, Paul, Tom, Pat, Carl

00:05:38.924,00:05:41.924

Paul Bouchier: Karim showed unboxing of the Waveshare Robot. It comes fully assembled.

00:12:32.782,00:12:35.782

Paul Bouchier: Karim got the arm in addition to the rover. Rover is around $100; arm is around $225. The arm is driven by the same driver board as the rover. Arm has 0.5m radius, lifts 1 lb fully extended.

00:19:39.574,00:19:42.574

Carl Ott: Karim showed a control panel that lets you demonstrate various behaviors & explore an existing API that responds to JSON commands.

00:20:48.803,00:20:51.803

Carl Ott: Karim demonstrated the robotic arm, and also showed the 4-wheel rover

00:25:44.972,00:25:47.972

Paul Bouchier: Harold showed his Tach Attack project

00:26:03.584,00:26:06.584

Ponder SomeMore: snap fit or bust

00:26:12.753,00:26:15.753

Ponder SomeMore: bust

00:31:52.825,00:31:55.825

Carl Ott: Harold showed how he printed his case - a tall object - and he printed it vertically - using "Tree Support" - which seems to be available in more and more slicers. "Tree Support" looks cool, and allows printing unusual or awkward shapes with the filament oriented in preferred ways wrt object shape

00:37:26.040,00:37:29.040

Carl Ott: He also described "Purge Towers" for dealing with waste material between filament color swaps - and how to "Paint" different areas

00:37:39.352,00:37:42.352

Paul Bouchier: Harold has a 4-color Bambu printer which he used to print the multi-color tach attack. It built a purge tower alongside the print to purge an old color before printing a new color

00:39:09.424,00:39:12.424

Paul Bouchier: His printer cost around $490 at Microcenter - very happy with functionality

00:39:28.127,00:39:31.127

Paul Bouchier: Bambu A1

00:40:52.491,00:40:55.491

Carl Ott: Harold used a Bambu Lab A1 - like this -
https://us.store.bambulab.com/products/a1

00:41:59.009,00:42:02.009

Ponder SomeMore: that's a lot of work for a tach, but nifty choice for a trek-themed project

00:42:14.723,00:42:17.723

Ponder SomeMore: lazy way:

https://www.amazon.com/Neiko-20713A-Digital-Tachometer-Contact/dp/B000I5LDVC

00:43:19.983,00:43:22.983

Pat Caron: I didn't want to say way less work to buy on Amazon! I'm impressed with the work done

00:48:57.001,00:49:00.001

Ponder SomeMore: pricey

00:48:57.558,00:49:00.558

Ponder SomeMore: tps://www.amazon.com/Vision-Miner-Polymer-Adhesive-120ml/dp/B09JQPMRXF

00:49:39.362,00:49:42.362

Paul Bouchier: Harold recommends Nano Polymer Adhesive to hold parts onto the print bed.

00:54:53.928,00:54:56.928

Ray Casler: I have the equivalent of the Bambu - it is an ender 3 v2 and several cans of spray paint...

00:55:39.808,00:55:42.808

Ponder SomeMore: i have a glue gun and a sharp knife

00:57:16.924,00:57:19.924

Paul Bouchier: Gold star for Karim for showing an arm moving

00:58:06.827,00:58:09.827

Pat Caron: Does Karim get a gold star for the robot arm?

00:58:09.535,00:58:12.535

Ponder SomeMore: nah, i don't get a star of showing an unmodded kit

00:58:32.772,00:58:35.772

Paul Bouchier: Hey - it moved. That counts.

01:00:58.171,01:01:01.171

Ponder SomeMore: howdy

01:21:15.368,01:21:18.368

Carl Ott: Tom C compared GPS sensors for outdoor robot use

01:46:47.613,01:46:50.613

Ponder SomeMore: https://www.gpsvisualizer.com/

01:54:11.894,01:54:14.894

Carl Ott: ~ 9:31pm- Pat showed progress with his Wooden Monster outdoor rover. GOLD STAR (wheels turning)

01:54:45.472,01:54:48.472

Ponder SomeMore: needs screw studs through the knobbys

01:54:53.004,01:54:56.004

Carl Ott: Sorry, this was Pat's Outdoor Bot / not the Wooden Monster...

01:54:54.092,01:54:57.092

Paul Bouchier: Pat showed his robot spinning its wheels

01:55:13.713,01:55:16.713

Paul Bouchier: GOLD STAR for Pat's BOB

02:03:12.402,02:03:15.402

Paul Bouchier: Pat showed his calculations of distance based on comparing a google maps path with measured GPS coordinate taken in the field

02:15:49.730,02:15:52.730

Paul Bouchier: Pat showed his MaixCam identifying cones in the image using AI

02:24:14.530,02:24:17.530

ed mart: Has anyone buy a cytron motion 2350 pro yet?

02:25:20.730,02:25:23.730

Trish Cook: I have to drop off, but I've enjoyed hearing about everyone's bots. Is the contest everyone is talking about on Oct 26?

02:25:33.864,02:25:36.864

Paul Bouchier: Thanks for joining us Trish

02:25:48.036,02:25:51.036

Carl Ott: SteamPunk Technology

Union Pacific Big Boy No. 4014

1.2 million Pound Working Steam Locomotive On Tour

DFW Event This (estimated) Thursday & Friday 10/11 Oct

Official Schedule

https://www.up.com/heritage/steam/schedule/

About Big Boy No. 4104

https://www.up.com/heritage/steam/4014/

02:25:52.153,02:25:55.153

Paul Bouchier: Feel welcome to email president@dprg.org and I'll loop you in

02:26:59.131,02:27:02.131

Trish Cook: Great thanks!

02:28:01.997,02:28:04.997

Ponder SomeMore: https://www.youtube.com/watch?v=Hszu80NJ438

02:28:29.603,02:28:32.603

Carl Ott: Friends recording of technical talk from last visit about 3 years ago

https://www.youtube.com/watch?v=O79dwJWZq5I&pp=ygUPd2ZzNTIgKyBiaWcgYm95

Random writeup

https://www.theautopian.com/this-1-2-million-pound-beast-is-the-worlds-largest-running-steam-locomotive-and-seeing-it-in-person-will-break-your-brain/

02:34:10.521,02:34:13.521

Paul Bouchier: Doug showed his results of cone recognition trained on tc2 in the Roboflow model. He's considering Yolo.

02:36:13.188,02:36:16.188

Paul Bouchier: Doug is working on customizing models and likes Roboflow.

02:38:15.785,02:38:18.785

Ponder SomeMore: maixCAM is supposed to support BF16, Mobilenetv2, YOLOv5 and YOLOv8 common models

02:40:50.353,02:40:53.353

Carl Ott: 10:18pm - Paul showed a new portable monitor he picked up as an Amazon deal - 15" for about $70 or $80

02:41:54.623,02:41:57.623

Pat Caron: See you next week