

RBNV - 9/15/2020 Chat Record

00:21:16.647,00:21:19.647

Robots New Zealand: <https://platformio.org/>

00:29:09.503,00:29:12.503

Ponder SomeMore: I'm going to have to cut out early. Is there any plan to talk about updates to the competition - or was that covered last Saturday?

00:32:10.188,00:32:13.188

Carl Ott: Karim- we discussed it on Saturday, but - no real 'time oriented' conclusions as of yet. Basically, it seems Ron Grant is making great progress to redo his simulator into a client-server architecture. But it means he's also noodling on how and when to deploy it. I think he's close - but - well - asymptotically close...

00:33:43.792,00:33:46.792

Carl Ott: Bottom line - people can get started with the version that's on GitHub now. But if you're like me and want to simulate a Mecanum platform - you may want to hold out until the first release of the client-server version.

00:34:46.486,00:34:49.486

Ponder SomeMore: asymptotically close - prophetic

00:35:18.008,00:35:21.008

Carl Ott: Karim - ;-) that was about the line follower - were you asking the larger question - which contests and when?

00:35:58.807,00:36:01.807

Carl Ott: currently, only 4 people have responded to the survey I sent out - and one of those was me

00:37:36.783,00:37:39.783

Ponder SomeMore: larger question - but maybe there's not enough interest

00:38:24.845,00:38:27.845

Carl Ott: weelllllll - it seems there is 'interest' - but it's tied with a weak binding to actual action...

00:40:37.346,00:40:40.346

Ponder SomeMore: need to PID tune the interest - seems like we need to up the P term a lot

00:40:53.843,00:40:56.843

Carl Ott: Karim - you nailed it

00:41:31.729,00:41:34.729

Jian Shi: What's the recommended interrupt rate for PID controller?

00:41:59.927,00:42:02.927

Ponder SomeMore: depends entirely on you system dynamics

00:42:07.080,00:42:10.080

Chris N: On my last robot I was running everything at 50Hz which I think is plenty.

00:42:14.896,00:42:17.896

Ray: 20 hertz or 50 mS

00:42:15.917,00:42:18.917

Chris N: encoder interrupt rate will be higher of course

00:42:26.407,00:42:29.407

Carl Ott: perhaps in the next week or so - we need to fix a setpoint for the fall contests.

00:45:15.381,00:45:18.381

Ponder SomeMore: fix it in software

00:54:57.746,00:55:00.746

Carl Ott: Hi Ron - Good to see you!

00:55:51.954,00:55:54.954

Ponder SomeMore: dang I missed Ron again - i must away ...

00:55:55.629,00:55:58.629

Ponder SomeMore: later dudes

01:15:35.146,01:15:38.146

Robots New Zealand: Adafruit DotStar 8x8 64 RGB LED Pixel Matrix
<https://www.adafruit.com/product/3444>

01:18:56.557,01:18:59.557

Carl Ott: Looks like Ron is getting a demo ready...

01:19:16.452,01:19:19.452

Carl Ott: I think Ron has built a Star Gate

01:55:27.167,01:55:30.167

Robots New Zealand: <https://www.makerbot.com/professional/post-processing/vacuum-forming/>