

DPRG RBNV Chat Record -12/22/2020

Doug Dodgen

7:32 PM

<http://pulcher.biz/cooking/2020/07/13/dads-meat-pies>

Carl Ott

7:40 PM

Here's the link John K found - good looking background to do real world stuff with Arduino Serial

<https://www.instructables.com/Arduino-Serial-IO-for-the-Real-World/>

Ray

7:57 PM

tmi

tmi

Doug Paradis

7:57 PM

neato engineer talk link:

<https://cmusv.adobeconnect.com/a829716469/p17388090/?launcher=false&fcsContent=true&pbMode=normal>

Carl Ott

8:19 PM

Chris shared cool work on dewarping rotating LiDAR data.. check out

https://github.com/nettercm/lidar_dewarping

Ron Grant

8:21 PM

is my microphone working

Chris N

8:43 PM

CoppeliaSim

Carl Ott

8:45 PM

Jesse showed a cool simulation he's working on for tank battle bots - intended to model physical robots that could be well suited to STEM. We'd like to remind everybody that Chris did an excellent presentation on ColleliaSim - checkout DPRG Clips on YouTube: <https://www.youtube.com/watch?v=3JznXZiIM8M> that was from DPRG's 10 Oct meeting

Chris N

8:46 PM

Ron - I think I did hear you a few moments ago, so yes.

Ray

8:46 PM

sounds better than a pinyata...

Doug Paradis

8:46 PM

link to Chris's presentation on ColleliaSim: <https://www.dprg.org/robot-simulators-colleliasim-and-lfs-version-2-dprg-virtual-monthly-meeting-oct-10th-2020/>

Carl Ott

8:53 PM

As noted- the next Dumpster Dive starts on Wed Dec 23 10:00am MST

<https://www.sparkfun.com/products/16348>

Carl Ott

8:56 PM

That's the next SparkFun dumpster dive. Reportedly - odds are good to find useful & decent parts in the mix, easily worth \$20

Jesse Brockmann

8:58 PM

<https://www.robotshop.com/en/4-stroke-firgelli-automation-12vdc-35lb-force-linear-actuator-w--pot-feedback.html>

<https://www.robotshop.com/en/actuonix-p16-linear-actuator-200mm-221-12v-w--potentiometer-feedback.html>

Carl Ott

8:58 PM

<https://www.pcmag.com/reviews/anki-drive-starter-kit>

Harold Pulcher

9:06 PM

Insult to injury...

Harold Pulcher

9:07 PM

<https://photos.app.goo.gl/5bX3gWnWpwARPHoJA>

Chris N

9:08 PM

David - the answer is you add some proximity sensor like sonar

Ray

9:09 PM

or buy one of those \$900 2d lidars like jesse has...

Chris N

9:11 PM

Regarding the RealSense: it is basically like a Kinect. One can treat it like a 2D lidar that does not have a 360deg view

Jesse Brockmann

9:12 PM

Realsense actually has a 3d lidar as well

Chris N

9:13 PM

Right... So you get 2 planes not just one so if the full data is used, that would help deal with the issue that David was talking about

Jesse Brockmann

9:13 PM

the realsense uses 2 cameras to generate a depth map. So it should work in the case of rocking chair because it's really 3d

Chris N

9:14 PM

Ron - please add a "Cat" feature to your simulator

Ray

9:14 PM

my realsense camera is a xbox 360 and a raspberry pi 4...

Jesse Brockmann

9:16 PM

<https://www.digikey.com/en/product-highlight/i/intel/lidar-depth-camera-l515>

Ray

9:16 PM

very nice but pricey...

Ray

9:17 PM

that happened to Sony Bono...

Chris N

9:21 PM

Jesse - getting some background noise from your end....

Jesse Brockmann

9:21 PM

sorry.. I was finding a video to show

Ray

9:23 PM

The rp lidar is what scott gibson uses on his 6 can robot

Ray

9:25 PM

the 515 is only \$356.40 .. maybe for Christmas next year..

Carl Ott

9:30 PM

Ron - forget Cats - please simulate this dude in your simulator... <https://ascmag.com/articles/terminator-2-greenberg>

Ron Grant

9:31 PM

OK Carl

Doug Paradis

9:35 PM

SRS virtual competition: <https://robothon.org/jan-16-2021-virtual-mini-sumo-contest-event/>

Ron Grant

9:36 PM

Hey Jesse I muted you

Jesse Brockmann

9:36 PM

sorry.. I forgot to

Ron Grant

9:37 PM

no problem - I forgot to mute myself when typing to you.!

Chris N

9:39 PM

If somebody can do the challenge course in 30 seconds, then it would be a bit suspicious....

Carl Ott

9:39 PM

And again - Chris throws a gauntlet ! Probably he's already down to 40 seconds with a path to 25...

Chris N

10:00 PM

It's getting late for me.... Enjoy the Holidays!

John Kuhlenschmidt

10:05 PM

<https://www.instructables.com/GorillaBot-the-3D-Printed-Arduino-Autonomous-Sprin/>

Ray

10:08 PM

Thanks John .. Actually I thought you were printing one that was an orange dog possibly from MIT??

Ray

10:09 PM

It also used 8 servos..

John Kuhlenschmidt

10:09 PM

<https://www.instructables.com/DIY-Spot-Like-Quadruped-Robot/>

This after i get the first one running.

Ray

10:10 PM

I have seen that one but it was not the one you showed us..

Ray

10:12 PM

Do you remember which one it was?

Ron Grant

10:12 PM

John - very cool - looked at video on your link.

Ron Grant

10:20 PM

Old cat - Lanolin (Goop) then rinse then dawn dish soap and rinse (of course keep out of cats eyes.

John Kuhlenschmidt

10:30 PM

<https://www.instructables.com/Baby-MIT-Cheetah-Robot-V2-Autonomous-and-RC/>

small verison

Ray

10:31 PM

That is the one !! Thanks John.

Jesse Brockmann

10:31 PM

Have you seen the bittle?

https://www.indiegogo.com/projects/bittle-a-palm-sized-robot-dog-for-stem-and-fun/?utm_source=petoicom#/