DPRG RBNV Chat Record – 8/30/2022

Just sent this test message to the D-List - In case anybody was worrying about environmental impact of the Large Hadron Collider... http://www.hasthelargehadroncolliderdestroyedtheworldyet.com/
Read the URL...
Ponder SomeMore
7:57 PM
hmm, they still don't support images in chat
Ponder SomeMore
8:00 PM
If you put a sender in your contacts, it's usually going to be treated as a legit sender
Carl Ott
8:00 PM
Yes - that Hadron Collider link shares well in imessages - there's a cute image you can see before clicking the link
For anybody interested in the DPRG D-List - it's free to join - learn more here https://www.dprg.org/mail-list/
Carl Ott
8:09 PM
we started around 7:52 pm discussing the DPRG D-LIst / email distribution list.
~8:06pm - Ray started asking about different Radar detectors - any experience in the club?
Ray
8:12 PM
fmr24-a5200
Ponder SomeMore
8:12 PM
http://www.merteh.lv/eh/pdf/TI00345FEN.PDF
Ray
8:13 PM
https://rfbros.com/product/fmk24-a5200/
Carl Ott
8:14 PM
for Radar- consider looking at the "walabot" sensor - note that some guys in Dallas have done several projects with these https://www.hackster.io/contests/walabot2017#category-168
The Walabot is a stud sensor - but has considerable DIY support https://walabot.com/
Ponder SomeMore
8:16 PM
yeah, I can't use the walabot. it goes nuts everytime I get near
Carl Ott
8:16 PM
The Walabot has an array of sensors - so it can create a decent 2-diemensional image
Karim - do you have a similar 'vortex' problem like the "Bermuda triangle' in Paul's back-yard that apparently disrupts IMU every time they get near?
Ponder SomeMore
8:17 PM
nah, it was a poor joke on the "stud sensor" theme
Carl Ott
8:18 PM
ahhh
Karim and Austin Powers - back to the international man of mystery theme :-)
Ponder SomeMore
8:19 PM
oooh baby, yeah!
Carl Ott
8:19 PM
Walabot maker & developer options at the bottom of this page https://walabot.com/collections/all
Scott Gibson
8:20 PM
https://www.sparkfun.com/products/18580
Carl Ott
8:21 PM

Scott - thanks for sharing that link to the Cygbot CygLiDAR D1 In stock SEN-18580 - "Cygbot's 2D/3D Dual Solid-State ToF LiDAR helps translate the 3D world into a 2D image and a 3D object using precisely measured depth data. This budget-friendly LiDAR unit operates without any moving parts making it much more durable in harsh operating environments."
Ponder SomeMore
8:28 PM
32,000 – 130,000 lux Direct sunlight
but it's bigger in Texas
Ponder SomeMore
8:33 PM
gmail seems to be complaining about DPRG list messages being unauthenticated. Looks like we don't have SPF and DKIM setup?
https://support.google.com/mail/answer/180707?visit_id=637975044746208454-1457186952&p=email_auth&hl=en&rd=1
Scott Gibson
8:34 PM
Sonar https://www.sparkfun.com/products/8504
Carl Ott
8:36 PM
Karim where do you see that? This mail sent by Doug lists wordpress as the sendr and is authenticated
from: dprg.org <donotreply@wordpress.com> to: carl.ott.jr@gmail.com date: Aug 24, 2022, 11:01 AM subject: [New post] RBNV – Robot Builders Night Virtual – August 30, 2022 mailed-by: b.wordpress.com signed-by: wordpress.com security: Standard encryption (TLS)
Carl Ott
8:39 PM
~ 8:39pm - Pat asked about implementation for 6-can- e.g. using a high power rare earth magnet as an orientation marker...
Carl Ott
8:41 PM
Karim described something like a 10 oz rare earth magnet tested with a compass, and finding that the deflection falls off by 3 feet ish
Ponder SomeMore
8:48 PM
That's odd Carl. I'm not getting list emails from that WordPress address. I'm getting them from <dprglist@lists.dprg.org>
Carl Ott
8:48 PM
Karim - about your Gmail 'warning' observation - yes - I see that members sending to the d-list look like this mail from Pat in July:
from: Pat Caron via DPRGlist <dprglist@lists.dprg.org> reply-to: Pat Caron <patcaron@mail.com> to: "dprglist@lists.dprg.org" <dprglist@lists.dprg.org> date: Jul 16, 2022, 5:50 PM subject: [Dprglist] Migrating from Arduino IDE Workshop mailing list: Dallas Personal Robotics Group Mailing List <dprglist-dprg.org> Filter messages from this mailing list security: Standard encryption (TLS)
But the meeting notices that Doug appear to come from a trusted domain wordpress.com
notices that Doug sends
Carl Ott
8:50 PM
e.g. - here's the invite "Robie-robot" sent for tonight's meeting: from: dprg.org <donotreply@wordpress.com> to: carl.ott.jr@gmail.com date: Aug 24, 2022, 11:01 AM subject: [New post] RBNV – Robot Builders Night Virtual – August 30, 2022 mailed-by: b.wordpress.com signed-by: wordpress.com security: Standard encryption (TLS)
Ponder SomeMore
8:51 PM
yeah, I get those no problem. only having issues with the listserver
Paul Bouchier
8:52 PM
When I ask the list to send me my password I never get an email.
Carl Ott
8:52 PM
Paul, I have the same problem - I often have to ask Doug to reset my password

Carl Ott
8:53 PM
Karim I bet your earlier finding is right - that **SPF or DKIM records** need to be instantiated -
per https://support.google.com/mail/answer/180707?visit_id=637975044746208454-
1457186952&p=email_auth&hl=en&rd=1&authuser=1#zippy=%2Ccheck-gmail-messages%2Ccheck-messages-in-
another-mail-client-like-outlook-or-apple-mail%2Clearn-more-about-how-authentication-works-spf-dkim
This describes how to set up an SPF record https://support.google.com/a/answer/10685031?authuser=1
Carl Ott
8:56 PM
~8:54pm - David described progress dabbling with ESP-8266, trying to get them to interact with each other. Then
discovered that his prior issues were with trying to use a residential Spectrum router, and instead used the 8266 as
their own access point / router... With that setup - issues went away / things started working
Doug Paradis
8:59 PM
Ray described ESP-NOW which he uses to drive a display for his robot.
Carl Ott
8:59 PM
Ray described "ESP Now" - a proprietary protocol for Espressif
devices https://www.espressif.com/en/products/software/esp-now/overview
Carl Ott
9:02 PM
David was using straight Wi-Fi. Set up an ESP-8266 as an access point - serves a web page, so that any browser
client can render the page. Is using this to toggle an LED from the ESP-8266 served web page. The ESP-8266 worked
every time, versus the first try by using the Spectrum Wi-Fi router - in which cased the connection seemed to drop / or
the 8266 wouldn't respond to the command
~9:01 - Ray showed his benchmark device using ESP Now to send relatively complicated telemetry to a handy display
Carl Ott
9:12 PM
~9:09pm - Karim asked about last weeks DPRG RBNV recording from 23 Aug - confirmed that an error must have
occurred - the source recording is only 15 minutes :-(
Hence- it's unfortunate that we don't have a video of the draft Mechevator presentation
Scott Gibson
9:12 PM
GPS Helical Antenna link https://www.sparkfun.com/products/17383
Carl Ott
9:18 PM
~9:15pm - Charles showed off the end effector he's been working on... A pretty substantial item with lead screws and
twin rails...
Ponder SomeMore
9:18 PM
usefulness is such an arbitrary measure
Carl Ott
9:21 PM
Charles has designed the gripper to accommodate FSR sensors, so that he can safely pick up the heaviest item in the
kitchen.
also showed progress on a shoulder joint, with a 4' x 4
4" x 4" sized joint
Carl Ott
9:22 PM
using AM equipment servo motors - with high torque.
Carl Ott
9:24 PM
First task - roll out to the front yard and water the lawn - believe it'll be easy to attach a hose sprayer to the end
effector. Is thinking to build on a wheelchair base
Carl Ott
9:26 PM
~9:25pm - Michael showed progress on the pedestal and arm for his next version Claw Machine
Carl Ott
9:33 PM

~9:30pm - discussed Makerspaces around DFW / one trying to start in Ft. Worth, also The Lab.ms (in Richardson)
Pat Caron
9:36 PM
Thanks guys. It's been a long day. See you next week.
Carl Ott
9:39 PM
~9:37pm - Harold question - options to build 'mechanical stuff' - e.g. maybe solve rubrics cubes or other things - but not sure how it would work. Is wondering about 'erector set' style kits - collection of parts and pieces and bushings and gears - a kit to use to mock things up...
Charles Flagg
9:41 PM
Actobotics kits are a good start for prototyping
Carl Ott
9:43 PM
here's a set of metal parts https://www.schoolspecialty.com/botbrain-metal-parts-upgrade-set-of-450-1443176?utm_source=google&utm_medium=shopping&utm_campaign=17074746652&product_id=1443176&ad_group_id=&feed_item_id=&target_id=&gclid=CjwKCAjw6raYBhB7EiwABge5KhEVJlvqFip-zpe2rewiDX4LJmlesDiEvJtj0kuSqDSmmq28YxxV3xoCs34QAvD_BwE&keyword=&kxconfid=u7avswvjn&source=ggl&campaignid=WP_-_PPC_-_GGL_-_ALL_(BRAND)_Pillars_-_Null_-_RVN_-_PMax_-_Null_-_Null_-_PPG_-_USA_-_All_Products_Low_Margin&placement=pmax&
Carl Ott
9:47 PM
hi group recommendations for GoBilda https://www.gobilda.com/kits/
Carl Ott
9:53 PM
I want to see a Rubics Cube robot that works by peeling the stickers off and reapplying the stickers...
Carl Ott
9:56 PM
Rubiks Robot solves in 0.38 seconds https://www.bbc.com/news/technology-43331049
Ponder SomeMore
10:07 PM
I gotta bail guys. gnite
Charles Flagg
10:08 PM
Here are the servos I want to use for the next joints: https://www.amequipment.com/shop/hd40-industrial-servomotor
Harold Pulcher
10:09 PM
https://www.youtube.com/watch?v=a-wJPG1wNlo
Carl Ott
10:09 PM
Charles - that's a pretty serious servo motor
Ray
10:18 PM
uh-oh rabbit hole ...