DPRG RBNV Chat Record – 11/1/2022

Carl Ott
7:41 PM
12 Nov 2022 - DPRG RoboColumbus https://www.dprg.org/robocolumbus-2022/
Carl Ott
7:43 PM
~7:42pm - Ray showed a video demonstrating an 8 element distance sensor from Sparkfun
Carl Ott
7:46 PM
it's actually an 8x8 sensor array. Sparkfun VL53L5CX - a time of flight sensor SEN-18642
learn more here https://www.sparkfun.com/products/18642
Carl Ott
7:49 PM
Check out the SparkFun product page - which shows a GIF illustrating a 3D distance image...
Carl Ott
7:56 PM
Here's a link to the ST Micro vendor data sheet - https://www.st.com/en/imaging-and-photonics-solutions/vl53l5cx.html
Carl Ott
7:57 PM
and the actual vl53l5cx data sheet- https://www.st.com/resource/en/datasheet/vl53l5cx.pdf
Carl Ott
8:11 PM
~8:!0pm - John G - showed a video of his face tracking skull face for Halloween - 2 of them actually - used for trick-or-treat last night...
GOLD STAR for John G!
John Gauthier
8:19 PM
https://www.thingiverse.com/thing:4830026
Carl Ott
8:20 PM
~8:15pm - started a discussion on 3D printers
Ray Casler
8:20 PM
https://www.microcenter.com/product/623606/creality-ender-3-v2-3d-printer
This one is $200
John Gauthier
8:21 PM
http://www.nilheim.co.uk/latest-projects-and-blog/simplified-3d-printed-animatronic-dual-eye-mechanism
Carl Ott
8:22 PM
John - thanks for sharing links to skull and eye...
Carl Ott
8:24 PM
CAD / Modelling recommendations?
Group answer - depends on learning curve
John Gauthier
8:24 PM
Fusion 360, free hobbyist version
Carl Ott
8:24 PM
Tinker CAD, Design Spark Mechanical
Ted Meyers
8:24 PM
onshape.com
Carl Ott
8:25 PM
lots of votes for Design Spark Mechanical - is well suited to make simple hobby robot parts
Ted Meyers
8:25 PM
onshape is free (with limitations) and fairly simple

Ted Meyers
8:28 PM
Highly recommend Prusa Slicer (works on lots of printers, not just Prusas)
Carl Ott
8:28 PM
Filament - PLA easy to work with but will melt in your car in the summer. Most of club uses ABS filament
Ted Meyers
8:28 PM
PETG is also fairly easy to print
TPU can be done, just go slow
Ted Meyers
8:30 PM
PETG is able to handle higher temps than PLA. TPU is flexible
Carl Ott
8:37 PM
~8:35pm - showed an example with PrusaSlicer - using PrusaSlicer to merge different models together, and create exclusion zones to print only part of the entire model... Several other slicers listed in the discussion...
Carl Ott
8:46 PM
~8:45pm - Michael showed pictures from his claw machine - for the Halloween Carnival - dispensing candy
Carl Ott
8:50 PM
~8:48pm- Karim showed the current YouTube for Mechavator...
ed mart
8:54 PM
Ed in Connecticut
Carl Ott
8:55 PM
~8:54pm - Doug P showed progress on his outdoor rover
Carl Ott
9:07 PM
~9:06pm - David A showed a video with jBot ping ponging between two cones
Carl Ott
9:20 PM
GOLD STAR for Doug- Nice Progress Video
Carl Ott
9:22 PM
~9:21pm Michael showed a prototype of his claw hand...
showed a cool technique to use a soldering iron to install brass screw inserts into his 3d piece
Carl Ott
9:31 PM
~9:30pm - Ray showed a small milling machine he made earlier this year
Ponder SomeMore
9:32 PM
thanks guys, i gotta bolt
John Gauthier
9:41 PM
https://smile.amazon.com/HiLetgo%C2%AE-NRF24L01-Wireless-Transceiver-Compatible/dp/B00WG9HO6Q/ref=sr_1_2_sspa?crid=24ZN5ZTKD04MG&keywords=nrf24l01&qid=1667356857&qu=eyJxc2MiOiI0LjI1IiwicXNhIjoiMy45NSIsInFzcCI6IjMuODQifQ%3D%3D&sprefix=nrf24l01%2Caps%2C84&sr=8-2-spons&psc=1
Carl Ott
9:42 PM
~9:40PM- John asked if any experience on a long range wireless transceiver (NRF24L01). Crowd had lots of wireless radio experience but nobody with experience on that specific radio...
John Gauthier
9:42 PM
https://smile.amazon.com/MakerFocus-NRF24L01-Wireless-Transceiver-Regulator/dp/B08LSPZHT8/ref=sr_1_4?crid=18ZGRXWBQ0VEJ&keywords=nrf24l01&qid=1667356922&qu=eyJxc2MiOiI0LjI1IiwicXNhIjoiMy45NSIsInFzcCI6IjMuODQifQ%3D%3D&sprefix=%2Caps%2C83&sr=8-4
Carl Ott
9:45 PM

2.4 GHz, 1100 meters of range
plus - in a certain mode- one master can broadcast to 6 receivers..