

## DPRG October 2021 Monthly Meeting Chat Record – 10/9/2021

Carl Ott  
1:12 PM

interesting idea <https://gizmodo.com/creepy-new-drone-that-walks-and-flies-is-a-robotocalypse-1847809268>

Carl Ott  
1:13 PM

~1:13pm- David A - talking about potential upgrades - to his balancing robot - helping it get up by itself..

Carl Ott  
1:17 PM

passive walking robot - <https://www.youtube.com/watch?v=rhu2xNIpgDE>

Carl Ott  
1:20 PM

~1:20pm - Doug P shared his targets & ideas

Ray Casler  
1:44 PM

I use these. They version 1.3 [https://www.banggood.com/2Pcs-LILYGO-TTGO-LORA32-915Mhz-ESP32-LoRa-OLED-0.96-Inch-Blue-Display-bluetooth-WIFI-ESP-32-Development-Board-Module-With-Antenna-p-1239769.html?rmmids=myorder&cur\\_warehouse=USA&ID=6310765](https://www.banggood.com/2Pcs-LILYGO-TTGO-LORA32-915Mhz-ESP32-LoRa-OLED-0.96-Inch-Blue-Display-bluetooth-WIFI-ESP-32-Development-Board-Module-With-Antenna-p-1239769.html?rmmids=myorder&cur_warehouse=USA&ID=6310765)

Kevin Shin  
1:46 PM

ESP32 Lora

[https://www.amazon.com/HiLetgo-Display-Development-Bluetooth-Unsoldered/dp/B07WHRS2XG/ref=sr\\_1\\_2\\_sspa?dchild=1&keywords=esp32+lora&qid=1633805136&sr=8-2-](https://www.amazon.com/HiLetgo-Display-Development-Bluetooth-Unsoldered/dp/B07WHRS2XG/ref=sr_1_2_sspa?dchild=1&keywords=esp32+lora&qid=1633805136&sr=8-2-)

[spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUFJMVRVNDcwMEE3ViZlbnNyeXB0ZWRJZD1BMDYyODA4MVZST0g2VEJQSzAxVCZlbnNyeXB0ZWRBZEIkPUExNDMwODU5UVBMTU1WSIFQM1ZBJndpZGdldE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JIZGlyZWN0JmRvTm90TG9nQ2xpY2s9dHJ1ZQ=](https://www.amazon.com/HiLetgo-Display-Development-Bluetooth-Unsoldered/dp/B07WHRS2XG/ref=sr_1_2_sspa?dchild=1&keywords=esp32+lora&qid=1633805136&sr=8-2-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUFJMVRVNDcwMEE3ViZlbnNyeXB0ZWRJZD1BMDYyODA4MVZST0g2VEJQSzAxVCZlbnNyeXB0ZWRBZEIkPUExNDMwODU5UVBMTU1WSIFQM1ZBJndpZGdldE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JIZGlyZWN0JmRvTm90TG9nQ2xpY2s9dHJ1ZQ=)

=

Carl Ott  
1:46 PM

thanks Ray and Kevin - good links to a versatile version of the ESP32 - with LORA and Display...

Kevin Shin  
1:47 PM

ESP32 V2 has 8MB Flash

[https://www.amazon.com/MakerFocus-Development-Bluetooth-0.96inch-Display/dp/B076MSLFC9/ref=sr\\_1\\_2\\_sspa?dchild=1&keywords=esp32+v2&qid=1633805196&sr=8-2-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUExR1IQMEpISExTSVvJmVuY3J5cHRIZElkPUExMzQ1NTYwMVE0UzdXMUxiU0tRQiZlbnNyeXB0ZWRBZEIkPUExMDQxMjU2T1Y0ODdTRlpZNVFBjndpZGdldE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JIZGlyZWN0JmRvTm90TG9nQ2xpY2s9dHJ1ZQ==](https://www.amazon.com/MakerFocus-Development-Bluetooth-0.96inch-Display/dp/B076MSLFC9/ref=sr_1_2_sspa?dchild=1&keywords=esp32+v2&qid=1633805196&sr=8-2-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUExR1IQMEpISExTSVvJmVuY3J5cHRIZElkPUExMzQ1NTYwMVE0UzdXMUxiU0tRQiZlbnNyeXB0ZWRBZEIkPUExMDQxMjU2T1Y0ODdTRlpZNVFBjndpZGdldE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JIZGlyZWN0JmRvTm90TG9nQ2xpY2s9dHJ1ZQ==)

Thalanayar Muthukumar  
1:57 PM

Need to drop. Interesting discussions

Carl Ott  
1:57 PM

Thanks- See You!

Ray Casler

1:58 PM

oooow. a transformer robot ..

Carl Ott

2:09 PM

~2:08pm John K showed a 6 wheel platform - thinking to make it be his next indoor platform...

Carl Ott

2:12 PM

John K is also looking at a 4 or more legged robot... Showed a few examples e.g.

<https://www.instructables.com/Robot-Cat/>

Carl Ott

2:16 PM

John K- also inspired by robots that move in non-traditional ways - e.g. this one

<https://www.instructables.com/Dtto-Modular-Robot-Self-reconfigurable-Modular-Rob/>

Carl Ott

2:18 PM

also has decent looking GitHub and writeup on Hackaday <https://github.com/otreb333/Dtto-Modular-Robot> <https://hackaday.io/project/9976-dtto-v10-modular-robot>

Carl Ott

2:35 PM

<https://www.youtube.com/watch?v=phPp5oYnps0&t=71s>

Carl Ott

2:49 PM

that youtube link was for "the most important device in the universe" => a Sci-Fi prop used in countless movies... Very simple - and driven by a venerable 555

Carl Ott

2:52 PM

~2:27pm Carl showed range of open ideas and inspirations – no decisions yet on what to actually build...

Carl Ott

2:54 PM

looking at some optical sensors Oak-D Lite [https://www.kickstarter.com/projects/opencv/opencv-ai-kit-oak-depth-camera-4k-cv-edge-object-detection?ref=user\\_menu](https://www.kickstarter.com/projects/opencv/opencv-ai-kit-oak-depth-camera-4k-cv-edge-object-detection?ref=user_menu) OPenMV-H7 Plus

<https://www.sparkfun.com/products/16989> Pimoroni PAA5100JE Near Optical Flow

<https://shop.pimoroni.com/products/paa5100je-optical-tracking-spi-breakout>

Carl Ott

2:56 PM

Focusing on aesthetics – especially SteamPunk – e.g. inspiration

[https://www.google.com/search?q=steampunk+office&sxsrf=AOaemvK3-](https://www.google.com/search?q=steampunk+office&sxsrf=AOaemvK3-cZOFjpvYEnRAANe81fZ7HYHg:1633801866926&source=lnms&tbm=isch&sa=X&ved=2ahUKEwi786Sf8r3zAhXHkWoFHZdQCbsQ_AUoAXoECAEQAw&biw=1280&bih=625&dpr=1.5)

[cZOFjpvYEnRAANe81fZ7HYHg:1633801866926&source=lnms&tbm=isch&sa=X&ved=2ahUKEwi786Sf8r3zAhXHkWoFHZdQCbsQ\\_AUoAXoECAEQAw&biw=1280&bih=625&dpr=1.5](https://www.google.com/search?q=steampunk+office&sxsrf=AOaemvK3-cZOFjpvYEnRAANe81fZ7HYHg:1633801866926&source=lnms&tbm=isch&sa=X&ved=2ahUKEwi786Sf8r3zAhXHkWoFHZdQCbsQ_AUoAXoECAEQAw&biw=1280&bih=625&dpr=1.5)

<https://www.pinterest.com/franlwales/steampunk-rooms/> <https://steampunktendencies.com/this-coal-fired-steam-bike/> <https://steampunktendencies.com/gabriel-o-the-steampunk-sidecar/>

<https://steampunktendencies.com/the-blastol>

Carl Ott

2:58 PM

Looking to incorporate various "displays" nixie bargraph <https://www.tindie.com/products/rcs27/nixie-clock-in-9-bargraph-driver/> EL panel and tape strip <https://www.adafruit.com/wishlists?wid=496510> transparent LCD display <https://www.sparkfun.com/products/15173> e-ink <https://www.tindie.com/products/squix78/esp8266-29-espaper-plus-module-wifi-epaper/> smoke-stack / smoke generator <https://www.instructables.com/An-Inexpensive-Smoke-Fog-Generator/>

Carl Ott  
2:59 PM

or maybe incorporate "the most important device in the universe" [https://www.youtube.com/results?search\\_query=most+important+device+in+the+universe](https://www.youtube.com/results?search_query=most+important+device+in+the+universe) Outdoor Rover Base <http://www.axialracing.com/products/axi90075> Indoor robot chassis / want to make a shell like a 50's flying saucer – inspired by <https://www.google.com/imgres?imgurl=https%3A%2F%2Fwww.renderhub.com%2Ffirdz3d%2Fflying-saucer%2Fflying-saucer-01.jpg&imgrefurl=https%3A%2F%2Fwww.renderhub.com%2Ffirdz3d%2Fflying-saucer&tbid=EyOos7lj>

~2:53pm Ron G HoverStart 360 – a Drone <https://www.amazon.com/Hover-Star-Original-Sensors-Controlled/dp/B08K78SVXS>

Kevin Shin  
3:01 PM

Carl, some ideas for you  
<https://www.youtube.com/watch?v=D94OKeqH7AA>  
<https://www.youtube.com/watch?v=2cJ9G7-5gNs&t=35s>

he even have mp3 sounds

Carl Ott  
3:03 PM

Kevin - I really like the metal one with caged thing in back

You  
3:04 PM

dashboard stepper motor: <https://www.taninautoelectronix.com/shop/diy-parts/stepper-motors/>

Carl Ott  
3:06 PM

Kevin - this isn't really steampunk - but the build process this guy used is very interesting... Scratch Building an Aluminum RC Truck <https://hackaday.com/2021/09/05/building-an-aluminum-rc-truck-from-scratch/>

Carl Ott  
3:20 PM

~3:17pm Ray showed low mowing robots  
lawn mowing robots

Carl Ott  
3:37 PM

~3:25 - tiny servos <https://leeselectronic.com/en/product/16429-pico-servo-pico-bb.html>  
<https://www.rcplanet.com/spektrum-2.3g-linear-long-throw-servo-spmsa2030l-spmsa2030l/p-tqavsauagczxweue>