

DPRG RBNV Chat Record – June 27, 2023

Carl Ott

7:33 PM

Quque: Ted, Ray, Doug – discussion / info sharing - not robots, Carl – quick Bard vs. Chat GPT

Carl Ott

7:36 PM

~7:35pm - Ted ordered one of the depth sensing cameras in the same family as Ray has evaluating - Ted's came under a slightly different name - NetaSebse A010. Shared findings...

Mickey

7:58 PM

I made a remote control mower and it uses skid steering on a flight controller TX and I have all sorts of issues when driving it TOWARD me

I have to flip the Tx upside down when driving it toward me and pull the sticks toward me too.

Carl Ott

7:59 PM

~7:55pm Ray discussed joystick mixing, then discussed a lens and varifocal lens with motorized zoom and focus (Witru)

Carl Ott

8:04 PM

~8:02pm - discussion of the new Arduino R4 - how it's improved vs. prior.

Mickey

8:07 PM

Carl, I am wondering if building a RC mower with intentions of turning it into a robot mower this winter qualifies for a black star, or if I must wait until I at least get a microcontroller? I'd kinda like to show it off soon.

Mickey

8:09 PM

Carl, I am not prepared tonight, but I am just curious for next week?

Mickey

8:10 PM

I am not sure if a RC build is significant progress, though I assure you it is for me since I have never thought I had the aptitude for this

Carl Ott

8:11 PM

Mikey - no worries - we can go with 'off the cuff' or 'prepared'. We frequently have discussions of works in progress and questions and brainstorming and troubleshooting... Whatever you're comfortable with. I heard at least some folk will join next Tuesday (even though it's 4 July)

Ray Casler

8:11 PM

<https://www.aliexpress.us/item/3256805255746707.html> URL for zoom - focus lens.

Carl Ott

8:12 PM

~8:08pm Doug P showed a cool offering from Solid Works. Some software geared squarely at makers. Doug also showed a new offering from Adafruit - a kind of 'chassis' to mount boards on "Adafruit Swirly Aluminum Mounting Grid for 0.1" Spaced PCBs".

Ray Casler

8:13 PM

<https://www.aliexpress.us/item/3256803507504861.html> another lens URL

Carl Ott

8:13 PM

here's a link to the Adafruit Swirly mounting board: <https://www.adafruit.com/product/5774>

Carl Ott

8:16 PM

~8:15pm - Doug showed a valuable resource from Rev Robotics - explaining basic background on mechanical parts we often use in our hobby robots...

Looks like a great summary of terms, diagrams, basic operations...

Doug P.

8:18 PM

Interesting links:

<https://docs.revrobotics.com/duo-build/actuators/sprockets-and-chain>

Carl Ott

8:18 PM

~8:17pm - Karim chimed in with experience on the Rev robotics parts - pros and cons from years of application in First teams.

Mickey

8:20 PM

Karim, do you have any advice to a novice trying to drive skid steer TOWARD them other than flipping the Tx upside down and pulling sticks instead of pushing?

Carl Ott

8:24 PM

Mickey - I can chime in on that. I first learned the trick of flying RC planes in the 6th grade. You can turn around and look over your shoulder - but the practiced drivers/fliers do the flip in their head. The trick is to imagine you're in the cockpit and looking out towards yourself. The problem is even worse when you fly helicopters or fly a plane upside down and towards yourself. The stick orientation goes haywire quickly - too quickly to stand on your head and look over your shoulder:

Carl Ott

8:25 PM

You tend to learn pretty quickly when the plane is a 6-footer made of balsa wood, and crashing means an evening with epoxy and new monokote covering...

Mickey

8:26 PM

I bet! I guess I have to decide which will look crazier while mowing, Flipping the Tx or looking over my shoulder from my shady spot

Ponder SomeMore

8:26 PM

I'll agree with Carl. It will take some practice, and it can be very frustrating at the beginning - but you can get your mind to flip point of view.

Mickey

8:27 PM

I will put a micro-controller on it this year, for at least Cruise Control mode

Ponder SomeMore

8:27 PM

When using a microcontroller you can easily remap the controls, but ...

Ted Meyers

8:27 PM

Mickey, if you can get a RC simulator, that is a great way to learn without breaking stuff

Mickey

8:27 PM

yes, that is the plan, I am not sure I can get to the encoders this summer because the shafts are not extended.

Breaking stuff is how I learn best!