

DPRG RBNV Chat Record – September 12,2023

Doug P.

7:46 PM

50w AC/12V input LiPo battery charger on sale at HobbyKing for \$28. Link: https://hobbyking.com/en_us/imax-b6-ac-dc-charger-5a-50w-with-us-plug-copy.html

Carl Ott

7:49 PM

~7:46pm - Doug D- Shared an update on his Steam Punk Robodog. Had a "Week of Refactoring." Described mechanical issues with wheel sizes and motor strength. Did have progress with a metal strap to mount motors to PVC pipe legs...

Carl Ott

7:51 PM

~7:50 - David's rule of 3: 1st go is to understand the problem - 2nd go is to understand the solution and 3rd go is to get it working well.

Mickey Dean

8:14 PM

platinum

Carl Ott

8:16 PM

~8:00pm - Iron Reign shared the First Tech Challenge for 2023-2024. Also shared a video they made of a 'reveal weekend build' exercise they did - where they built an arena one day and then spent 6 hours on the next day mocking up a robot to learn about the competition and quickly testing various ideas. GOLD STAR for Iron Reign -

Carl Ott

8:27 PM

Here's the formula for number of communication paths e.g., to describe how many different communication paths First Tech Competition alliance members will have to deal with – e.g., when it comes to coordinating with new alliance members on the field: As a project grows in size, it involves more team members and stakeholders, and communications complexity increases geometrically. The equation "number of communication paths equals to $n(n-1)/2$ " is familiar to project management professionals.

that was taken from here: <https://www.pmi.org/learning/library/overcoming-communications-complexity-ambiguity-projects-6631#:~:text=As%20a%20project%20grows%20in,familiar%20to%20project%20management%20professionals>

Carl Ott

8:28 PM

Basically - that quantifies the complexity you'll face as the number of people involved grows - e.g. within a single team, and when two different teams join together to form a larger 'alliance' team

Carl Ott

8:35 PM

Here's some inspiration to try Origami techniques for the Iron Reign drone...

<https://youtu.be/Mtlf5WHTbns?si=jiyqaYNyCpBpKfs0>

Iron Reign

8:39 PM

<https://www.youtube.com/watch?v=vi8UbzLSxAc>

Carl Ott

8:40 PM

That was the Iron Reign reveal video...

Doug P.

8:41 PM

Musk's rules:

Question every requirement.

Delete any part or process you can.

Simplify and optimize.

Accelerate cycle time.

Automate.

Iron Reign

8:43 PM

Elon Musk's 5-step process Make the requirements less dumb. ... Delete the part or process. ... Simplify or optimize the design. ... Accelerate cycle time. ... Automate.

Carl Ott

8:48 PM

~8:47pm - Mike W - waiting on his OpenMV pre-order. Asked if anybody has insight to status - they started production a month ago but maybe hit a snag... Nobody online had info.

Harold Pulcher

8:49 PM

<https://www.ic3dprinters.com/2023-toys/>

Carl Ott

8:56 PM

~8:53 - Doug P shared a recent purchase - an air compressor to help ventilate his laser cutter. Tried this model from Harbor Freight - which is 60 dBA / very quiet and well suited to the task... <https://www.harborfreight.com/2-gallon-135-psi-ultra-quiet-hand-carry-jobsite-air-compressor-64596.html>

Carl Ott

8:58 PM

Harold shared this link <https://www.ic3dprinters.com/2023-toys/> This is a community effort to print toys for kids...

Carl Ott

8:59 PM

So feel free to join in w/ Harold if you'd like to print & contribute toys for tots...

Pat Caron

9:01 PM

Sorry my battery died earlier! I will see everyone next week, hopefully with a robot update.

Carl Ott

9:03 PM

~9:02pm - David shared an article from this months IEEE Spectrum, about using a pinhole camera for an ESP32 Sept 2023 issue

~ 9:03 - Carl shared random updates for Tangent Tuesday For those in search of another chick magnet.

Oscilloscope Watch finally delivers <https://www.tomshardware.com/news/oscilloscope-watch-ships-after-10-years>

Carl Ott

9:04 PM

just flat-out cool 1.2 oz helicopter with a secure video feed Pack of 3 with support gear circa \$85K

<https://www.popsci.com/technology/black-hornet-drone/>

Carl Ott

9:06 PM

Cool concept but annoying video First person view from an RC plane <https://www.youtube.com/shorts/yyhgesBTsIQ>

Carl Ott

9:08 PM

Patent Alert <https://www.ideaconnection.com/blog/inventions/stick-patent.html>