DPRG RBNV Chat Record – 08/05/2025

00:03:03.411,00:03:06.411

Pat Caron: Dave A - This month celebrating 1yr anniversary! Hi new bride is buying him a Sunfounder Robot dog.

00:13:03.140,00:13:06.140

Pat Caron: Scott G - Working on Belch with mesh networks such as Xbee. He is looking to implement a wireless link between nodes & robots. He would like to use it with RTK gps to communicate locations and map data. He also described problems using uCenter v2.0 with F9 & below series. You must use uCenter v1.0 on F9 & below!

00:17:07.997,00:17:10.997

Pat Caron: Ray described his setup for a SparkFun F8 RTK gps. Scott mentioned that the gps data results can be skewed if the antenna is placed on a square plate vs a round steel plate.

01:11:31.713,01:11:34.713

Pat Caron: Mike W - Showed his uBlox M10 gps. He has not used any custom code on the gps yet. He wanted to know what approach to use when searching for a cone. Scott mentioned his approach. He showed his PID graph for his encoder speed control. We discussed his approach to converting pulses (6000 pulses/m) per time period to speed. He is using a median 3 filter to eliminate noisy readings on his encoder. Scott mentioned using interpolated data at very low speeds.

01:15:58.071,01:16:01.071

Pat Caron: He also showed his ESC programming chart with values he can reprogram.

01:17:50.355,01:17:53.355

Pat Caron: He has his PID loop working pretty well & has ROS Teleop controlling it. So far his tests have been on the bench.

01:26:51.404,01:26:54.404

Pat Caron: Tom C - Showed another update on his security camera system. He described the settings used on the ZoneMinder software. He showed several pictures of animals caught on camera.

01:28:03.382,01:28:06.382

ed mart: Link for camera product ??

01:28:29.229,01:28:32.229

ed mart: Thank you

01:31:38.330,01:31:41.330

Tom Crawford: Simicam Poe 4MP IP camera: https://www.aliexpress.com/item/1005005651235239.html?spm=a2g0o.productlist.main.1.7d8aeyOfeyOfjn&algo_pvid=da271848-8273-457e-b9fc-fb6f86edd83d&algo_exp_id=da271848-8273-457e-b9fc-fb6f86edd83d-0&pdp_ext_f=%7B%22order%22%3A%22529%22%2C%22eval%22%3A%221%22%7D&pdp_npi=6%40dis%21CAD%2161.35%2126.38%21%21%21312.37%21134.31%21%404210324461754446063563581 3e44d5%2112000033958540771%21sea%21CA%21891447715%21X%211%210%21&curPageLogUid=SACMbTqtnBLO&utparam-url=scene%3Asearch%7Cqu

01:33:20.064,01:33:23.064

Tom Crawford: Many of these branded IP cams use the same internals. Mine are H43 or H44 models made by Vatilon.com (they shipped me 2 of each, even though I ordered the same cam each time, spread over 1 month.)

01:34:58.650,01:35:01.650

Tom Crawford: Also, I bought the cams during Aliexpress sales, which dropped $3 - $4 from the price each time. Could only order 1 at a time.

01:35:41.923,01:35:44.923

Pat Caron: Ray C - Gave an update on his remote gate opener. He found a solar charge controller for ~$5 on AliExpress. He is looking into how to configure his solar panels to produce maximum output.

02:00:28.226,02:00:31.226

Pat Caron: Harold P - Showed off his giant retractable 3D printed pen. He also mentioned a 3D expo coming to the Dallas FW area next year. He also showed a mp3 player controlled by an Arduino variant.

02:04:51.539,02:04:54.539

Pat Caron: He also mentioned a problem on a compressor he's trying to fix at the DMS for a resin casting machine.

02:08:01.903,02:08:04.903

Pat Caron: He gave a short talk on casting with resins.

02:15:02.633,02:15:05.633

ed mart:
https://www.reddit.com/r/Damnthatsinteresting/comments/1m9v8uc/building_self_aiming_and_auto_emptying_trash_bins/