

Robot Builder's Night Virtual

March 25th, 2025

Key Discussion Points

Upcoming Events and Announcements

- **Power Lunch Announcement:** Initially scheduled for a different day, it was clarified to be held on Sunday at Ford's Garage.
- **VEX Robotics Interviews:** Trish Cook discussed her children's participation in the VEX Worlds Championship, seeking volunteers to help practice virtual interviews. There are 10 standardized questions with a corresponding rubric, and additional support was requested for May in-person interviews.

Project Updates

- **Trish Cook's VEX Teams:** Her three teams are advancing in the VEX competition, needing interview practice and aiming to perform well at World Championship levels.
- **Tom Crawford's Line Tracker Robot:** Presented a robot using an ESP 8266 with IR sensors and discussed its ability to discriminate between surface colors. Further experiments are planned to improve its tracking capabilities.
- **Fernando's Swerve Platform:** Demonstrated a swerve platform's movement and control, highlighting some coding issues and future plans for expansion.
- **Ray Casler's ESP32 Cam Project:** Showed how the ESP32 cam integrates with Telegram for remote security functionalities. Discussed challenges with various camera models and enhancements to camera functionality using Edge Impulse.
- **Pat Caron's Vision and LIDAR System:** Pat talked about integrating a stereo camera for depth perception and blob detection to improve object recognition capabilities.

Additional Shares and Demos

- **Harold Pulcher's "Mr. Big Head" Project:** Showed a portable platform for streaming using Raspberry Pi 5s, integrating quirky elements reminiscent of '80s AI concepts.

- **Harold's Pen Crafting Hobby:** Harold shared his new hobby of making personalized pens, including various designs using different materials and methods.