Robot Builders Night Virtual for March 31st, 2026

Video:

https://www.youtube.com/watch?v=0yYc4EKPWs4

DPRG News:

Roboama Competition:

Scheduled for the weekend of May 23rd, 2026, at the Dallas Makerspace.

Events include line following, advanced barrel racing, six-can, four-square, and sumo.

Additional details will be posted on the club's website and Discord server.

Robot Parade:

Set to take place on April 11th, 2026.

Club members are working on robots designed to tow floats, maintaining distances in a line-following course.

Key Presentations and Discussion Points:

Micro Mouse Robot Update by Matthew Komitsky

Performance Review: Matthew shared an update on his micromouse robot, highlighting challenges such as sensor issues leading to performance problems during the competition.

Design Modifications: Plans are in place for redesigning the robot to address sensor accuracy and noise, including improvements to the sensor circuit and reducing the bot's weight with a new 3D-printed chassis design.

Future Developments: Matthew is exploring features like Bluetooth control, enhanced maze-solving algorithms, and the addition of a suction fan for improved performance.
Black star ★

Ray Casler's Blob Detection Project

Camera System: Ray demonstrated his work using a Max Cam for blob detection, primarily targeting cans in varied lighting conditions.

Technical Challenges: Encountered issues with screen sharing and tested blob detection under different brightness thresholds.

Application Development: Used tools similar to OpenMV functions for developing applications that operate disconnected, highlighting the standalone capabilities of the camera. Black star ★

Harold Pulcher's Upcoming Twitch Stream

Interactive Project: Harold announced his "pick a turn" event on Twitch, where viewers choose project parts, to be constructed and given away.

Community Engagement: Encouraged community participation and discussed his approach to using AI tools such as GitHub's Copilot for project assistance.

Conclusions and Insights:

The meeting brought to light various technical challenges in robot design, particularly in sensor accuracy and the integration of new technologies.

Members continue to innovate and iterate on their designs, demonstrating resourcefulness and a commitment to improvement.

Community sharing and peer feedback provide valuable support for personal projects and encourage collective learning.

The meeting concluded with a reminder to check the Discord server for further updates and shared resources, encouraging continued collaboration among members.