

Robot Builders Night Virtual for March 10th, 2026

<https://www.youtube.com/watch?v=5Z2oUoTWjpY&pp=0gcJcCUKAYcqIYzv>

Main Discussion Points

Housekeeping

- **RoboRama:** Scheduled for the weekend of May 24th, featuring events like line following, barrel racing, sumo, and more. Participants are encouraged to prepare their robots for these events.
- **Line Following Parade:** An event at Dallas College Eastfield has been proposed, featuring parade floats with line-following capabilities. This is an open event, encouraging creative designs with electronically controlled floats.

Project Updates

- **Robbie the Robot:** Mark and his team are working on consolidating Robbie's power supply to simplify his internal wiring. They aim to replace the existing multiple power supplies with streamlined 12V and 5V systems. Mark has developed a CAD model for Robbie's neck mechanism and a 3D printed prototype to improve its design.
- **Sesame Robot:** Tom Crawford shared his progress on the Sesame Robot, highlighting the challenges encountered with servo fitting and power supply adjustments. He's considering battery and power management options for the robot.
- **New Developments in Tool Software:** Doug discussed LightBurn's expansion into milling with their new software, Mill Mage, suggesting it may offer a user-friendly approach to CNC routing similar to their laser software.

Technical Challenges and Solutions

- **2/3D Printing and Mold Making:** Discussion on creating complex parts like car air intake manifolds using 3D-printed molds and silicone castings. Various suggestions were made, including using flexible material and exploring rubber hose replacement options.
- **Electrical Engineering Queries:** Mark Dombrowski inquired about preventing back feed in his board's power supply. Recommendations included implementing ideal diodes and using MOSFETs for effective power management to prevent reverse current.

Conclusions and Insights

- The group expressed enthusiasm about participating in external robotics events to showcase their work and promote DPRG.
- Multiple project updates and technical discussions provided members with insights into problem-solving and innovation in robotics.

Referenced Links

- ***Mark R**
- - [Alumilite Amazing Mold Maker](#)
- **Ed Mart**
 - [Purple Platypus Air Intake Hose](#)

The meeting concluded with reminders for future events and affirmation of continued collaboration among members in preparation for upcoming competitions and robotics projects.