

# **RBNV for December 16th, 2025**

[DPRG RBNV - Robot Builders Night Virtual - December 16, 2025 - YouTube](#)

## **Main Discussion Points**

### **Ted Meyers' Outdoor Robot Calibration Challenges**

- Ted experienced issues with static electricity interfering with his outdoor robot's BNO055 compass calibration.
- Solutions proposed included using I2C buffers or range extenders and grounding techniques to mitigate electrical interference and enhance performance.

### **Scott Gibson's Commercial Robot Base Adaptation**

- Scott elaborated on adapting a discarded commercial robot's platform for home projects.
- Key challenges included managing weight distribution and control precision for future applications, with possible implementations including intelligent braking systems.

### **Mike Williamson's Autonomous Sumo Robot**

- Mike demonstrated his mini sumo robot project and discussed design improvements.
- Plans are to optimize the robot's center of gravity and improve load distribution for competitive performance in autonomous sumo matches.

### **Karim Virani's Ponderotics Website Launch**

- Karim introduced his new website, Ponderotics, featuring articles and project documentation related to various robotics topics.
- He invited group members to explore and provide feedback, with hopes for increased traffic to aid website indexing.

### **Isaiah Benodin's Sensory Robotics Lawn Mowers**

- Isaiah presented Sensory Robotics' autonomous electric lawnmower development aimed at commercial landscapers.

- His personal project converting a disc golf cooler wagon into an autonomous following robot also captured attention, fostering community interest in potential applications.

### **Conclusions and Insights**

- Numerous solutions and ideas for dealing with complex robotics issues were debated, including hardware limitations, sensor integration, and field suitability.
- Advancements in autonomous lawn-care technology and robotics could significantly benefit the commercial landscaping industry.
- The group's ongoing experiments and prototypes continue to advance personal and professional knowledge, adding shared value to the robotics community.

### **Referenced Links**

- **Mike Williamson**
  - [GitHub Repository for Autonomous Robot Project](#)
- **Mark R. and Karim Virani**
  - [Ponderotics Robotics Website](#)
- **Carl Ott**
  - [Toyota Walk Me: The Robot Chair Design](#)
- **Pat Caron**
  - [Millimeter Wave Radar Motion Sensor](#)

The group's next meeting is scheduled for the new year, marking the start of fresh projects and explorations in robotics. Keep an eye on the Discord and DPRG list for updates.