

# RBNV Meeting Summary for June 2, 2026

Information keyed to video's time line.

Video at <https://youtu.be/LVHQGkawejk>

- **00:00:00** - Introduction, meeting agenda, and organizing volunteers for Moon Day.
- **00:07:22** - Retrofitting an outdated Bridgeport CNC mill with modern control boards.
- **00:14:53** - Screen sharing troubleshooting for mobile devices.
- **00:19:57** - Autonomous mower video demonstration, including odometry and sensor algorithms.
- **00:31:21** - Discussion on the group's "Mowberry" robotic mower fleet.
- **00:34:50** - Documenting and setting up \$73 RTK GPS units as base stations.
- **00:38:11** - Reliability concerns and frequent outages with the RTK2Go service.
- **00:42:55** - Addressing local elevation calibration anomalies and geoid offsets.
- **00:46:15** - How to distinguish between LC29H hardware variants.
- **00:50:50** - Testing cellular modems and SIM card configurations for connectivity.
- **00:58:14** - Custom RTK GPS configurations and mitigating RTK2Go connection issues.
- **01:01:55** - Exploring robot path planning to create efficient mowing patterns.
- **01:04:37** - Rover hardware updates, testing, and safe robot operating speeds.
- **01:10:03** - Automating a platform using Open Sound Control commands.
- **01:12:20** - Utilizing the Robo Remo mobile app for ESP32 teleoperation.
- **01:16:06** - Demonstration of Vizanti, a web-based ROS visualization tool.
- **01:25:22** - Transitioning First Tech Challenge control systems to Linux-based platforms.
- **01:33:42** - Review of the Rev Robotics Robot Rodeo combat robotics event.

