

Robot Builders Night Virtual for July 28th, 2026

<https://www.youtube.com/watch?v=yu1aZUDOh7w>

DPRG News

- **RoboColumbus 2026** - Only about 4 months until the event. Are you ready?

Presenters

Tom C - He discussed strategies to defend against electrical surges that can destroy Power over Ethernet (PoE) camera interface boards. Transient voltage suppressors installed at cable entrances provide the most effective defense, while replacing already-damaged boards is the best path for system restoration.

- We discussed troubleshooting wireless signal interference caused by conductive enclosure paint. The solution involves using external antennas for reliable communication. Additionally, utilizing software-based antenna switching allows for flexible connectivity between onboard and external hardware.

Mike W - He reviewed ways to optimize robot sensor integration. Combining inertial measurement unit (IMU) data with time-of-flight and laser sensors yields much more accurate obstacle avoidance mapping. Furthermore, utilizing a sensor's absolute built-in fusion values instead of manual integration provides superior stability and reduces positional drift.

Referenced Links

- **Mike Williamson**
 - [Product Link](#) - A product suggested for potential use in robotics projects.