

Quality Assurance and Verification of Wireless Environmental Sensor Modules

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Goal

Document testing plans and design a verification board for wireless environmental sensor modules



Assumptions

- Initial designs of sensor modules are functional
- Working power and communications systems
- Verification board will be able to verify all current and future generations of the sensor modules

Constraints

- Project must be completed within 32 weeks
- Parts orders submitted every 4 weeks
- Circuit board designs must be sent to the mainland for fabrication
- Verification board must be compatible with various designs

Approach

1. Checked designs for accuracy
2. Documented design specifications
3. Assembled quality assurance checklist
4. Analyzed sensor modules for test specifications
5. Design verification board using EAGLE CAD software