

Matt Rottinghaus

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Ames, IA 50014

EDUCATION

Iowa State University - 2017
B.S - Electrical Engineering
B.InDD. - Industrial Design
GPA: 3.01

EXPERIENCE

2017: Current **Marshalltown Trowell Co.** **Marshalltown, IA**
Controls Engineering Intern

- Updating electrical schematics to be current and easy to interpret.
- Researching technology to improve manufacturing processes.

2017: Current **ISU Electrical Engineering Dept.** **Ames, IA**
Research Assistant

- Designed remote sensor systems for bridge monitoring.
- Designed embedded networking software.

2015 - 2017 **Almaco** **Nevada, IA**
Electrical Engineering Intern

- Programmed PLCs for combine control systems.
- Developed software for testing GPS accuracy and embedded systems.
- Tested and analyzed performance of seed handling systems.

2014 **Sukup Manufacturing** **Sheffield, IA**
Electrical Engineering Intern

- Tested and corrected grain dryer electrical systems.
- Assisted with massive electrical installation of auto-tint windows.

2014 **ISU Mechanical Engineering Dept.** **Ames, IA**
Lab Technician

- Designed, built, and repaired laboratory test equipment.
- Programmed heat exchanger controls with LabVIEW.

SKILLS

- Ability to program in C, VB.NET, and C++.
- Software: MATLAB, Danfoss Plus+1, Modelsim, Ultiboard, Multisim, Diptrace, Cadence, Quartus, Spice, SolidWorks, LabVIEW, Visual Studio.
- Designing analog circuits and embedded control systems.
- Basic machining and electrical assembly skills.

ACTIVITIES & ACCOMPLISHMENTS

- Former Robotics Club Outreach Chair.
- 1st place in hardware at spring 2015 hackathon – Laser Projector.
- Designed and built MIDI controllers for audio applications.