

Matt Rottinghaus

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Ames, IA 50010

PROFESSIONAL EXPERIENCE

2017 - Current **Emerson - Remote Automation Solutions** **Marshalltown, IA**
Firmware Engineer

- Designing system-level firmware for embedded flow measurement computers.
- Integrating a secure license manager into the embedded product.
- Developing software for the QNX Neutrino Operating System on an ARM platform.

2017: May-Aug **Marshalltown Trowell Co.** **Marshalltown, IA**
Controls Engineering Intern

- Updated electrical schematics to be current and easy to interpret.
- Researched and tested sensor technologies to improve manufacturing processes.
- Updated and designed safety systems and circuits for production cells.

2017: Jan-May **ISU Electrical Engineering Dept.** **Ames, IA**
Research Assistant

- Designed low-power remote sensor systems for monitoring bridges.
- Authored efficient embedded networking software for data streaming.

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

- Programmed PLCs for combine control systems.
- Developed software for testing GPS accuracy and embedded computer systems.
- Designed GUIs for desktop applications.
- 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 extensive electrical installation of auto-tint windows.

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

- Designed, built, and repaired laboratory test equipment.

EDUCATION

Iowa State University - 2017
Electrical Engineering, B.S.
Industrial Design, B.IndD.
GPA: 3.04

SKILLS

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