

DEREK ADAM ROWLAND

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Overview

Electrical Engineer with strong technical skills and demonstrated project execution experience.

Education

MISSOURI UNIVERSITY OF SCIENCE & TECHNOLOGY – Rolla, MO
(formerly University of Missouri - Rolla)

Bachelors of Science in Electrical Engineering, Dec 2010

GPA: 3.86/4.0 – Summa Cum Laude Honors

Technical Skills

- Software validation and quality assurance
- ControlLogix / CompactLogix Automation Programming
- Microsoft Visual Basic .NET & Visual Studio 2010
- Microsoft SQL & MySQL simple interfacing
- C, C++, & Python Programming
- Verilog/VHDL embedded basic design & troubleshooting
- IEEE-488/GPIB/LXI Instrumentation Control
- TCP/IP & Computer Networking
- Electrical circuit design

Work Experience

BARRY-WEHMILLER DESIGN GROUP – Kansas City, MO

Engineer Electrical, 2016 – Present

Control Systems Integration

- Responsible for accountability for all aspects of project execution including electrical design and implementation, development of design packages, OEM/Contractor management, and resource scheduling and management.
- Design electrical control panels, control stations, HMI interfaces, communication architectures, descriptions of operation, system documentation, and operator manuals

Key Projects

• Schwans – Stilwell, OK

Project engineer responsible for OEM integration and checkout for two new food production and packaging lines. Responsible for defining interlocks between OEM machine centers, communicating requirements to suppliers, and verifying functionality during check-out and start-up. Managed production line recipe requirements and Wonderware Recipe Manager Plus integration with OEM suppliers. Additional duties included electrical panel design review, electrical panel check-out and I/O checks following installation, and PLC programming and troubleshooting.

• Monsanto – Muscatine, IA

Lead Electrical engineer responsible for scope development for project to replace existing jug filler on Herbicide packaging line with new OEM equipment. Duties included electrical audit, Electrical Scope of Work development, equipment requirements negotiations, and generation of demolition and installation drawing packages for Contractor bidding.

HONEYWELL FM&T (NNSA's Kansas City National Security Campus) – Kansas City, MO
Engineer III Electrical, 2011 - 2016

SYSTEMS ENGINEERING

- System Sub-assembly Lead for development program major ship-level assembly
- Coordinate management and customer initiatives with Project Leads and team members
- Developed common tools and presentation formats to enable consistent messaging across projects
- Investigated proposed requirements changes and negotiated opportunities to minimize negative impacts

TEST ENGINEERING

- Project Lead for multi-million dollar projects to develop automated test equipment (ATE). Lead Designer and Integrator for complex test system which included high-voltage measurement, RF simulated radar return, and precision electro-mechanical mechanism drive and monitoring.
- Managed and negotiated project scope, schedule, and financial forecasting. Presented project status updates to management and government customers.
- Design of electronic circuits using Mentor Graphics schematic capture. Assembly, prove-in, and characterization of ESD-sensitive PCBs in lab environment.
- Led testing and prove-in of Kintex-7 FPGA implementation with C-based uBlaze co-processor
- Finalized development and qualification on long-term project to build destructive-test monitoring system
- Authored first draft of 350+ pg. product specification; detailed stimulus & signal criteria and test procedures
- Core member of multiple Product Realization Teams; cross-functional teams of engineers and design peers
- Engaged union operators & technicians for fabrication and prove-in of test systems and auxiliary equipment
- Certified for Honeywell's Design for Six Sigma and Green Belt programs for manufacturing excellence

Relevant Internship Experience

HONEYWELL FM&T (NNSA's Kansas City National Security Campus) – Kansas City, MO
Student Engineering III, Telemetry, May 2010 to Aug 2010

GARMIN INTERNATIONAL, INC. - Olathe, KS
Design Engineer Intern, Fitness Products, May 2009 to Aug 2009

ANHEUSER-BUSCH COMPANIES, INC. - St. Louis, MO
Engineering Co-op, Packaging Engineering, Jan 2008 to Aug 2008