Aaron D. Minard
aaron@aaronminard.com

Experience:

Gillespie, Prudhon & Associates, Inc. Clackamas, OR. October 2015 – Present
Telecommunications Engineer

- Engineer point-to-point radio systems.
- Specify equipment based on design and customer requirements.
- Perform site surveys, document and analyze site equipment for upgrade or replacement.
- Configure, install and maintain all aspects of Land Mobile Radio systems.
- Diagnose and repair Land Mobile Radio system components.
- Generate and interpret radio system coverage maps from prediction studies and drive test data.
- Assist with rack, stack and wiring at field and shop installations.
- Perform field tests to isolate Electro-Magnetic Interference (EMI) at radio sites
- Develop engineering drawings
- Technical knowledge and subject matter expertise spanning all facets of reverse engineering, complex telecom network troubleshooting and repair, and advanced technical solution development and deployment.

Burlington Electric Department Burlington, VT. February 2013 – June 2015
Engineering Technician - Communications

- Design, install and maintain microprocessor based controllers, supervisory control remote terminal units, and utility device control systems.
- Review new projects to develop implementation strategies.
- Configure, install and maintain voice and data telemetry equipment.
- Maintain electrical and electronic test and personal protective equipment.
- Operate power generation equipment (Gas turbine, Diesel generators, etc.).
- Ensure that switching, tagging and work activity conform to safety rules.
- Design, install and maintain fiber optic networks end-to-end.

Vermont Technical College Williston, VT. Jan 2013 – May 2015
Adjunct Faculty - Computer and Electrical Engineering Department

- Develop new course and testing materials for new and existing courses.
- Facilitate class and laboratory instruction.
- Evaluate student performance and provide feedback to students and college.

Microprocessor Designs, Inc. Shelburne, VT. February 2012 – February 2013
Development Engineer

- Analyze engineering designs, motor controls, instrumentation, and data acquisition for implementation into new or existing automated testing systems.
- Design and create automated equipment and logging software.
- Troubleshoot hardware design and specify Engineering Change Orders.
- Support test software by upgrading installations periodically with improvements based on performance and customer feedback.

LEDdynamics Inc. Randolph, VT. May 2008 – February 2012
Design Engineer

- Work in R&D department on new and custom products.
- Assess electromechanical systems and components to maintain functionality.
- Compile and analyze data to write reports and make design improvements.
- Investigate customer complaints, determine problem, and recommend remedy.

Education:

Vermont Technical College

- Bachelor of Science in Electromechanical Engineering Technology
  - Senior Project: Automated Satellite Tracker for Radio Communication
- Associate of Engineering Degree in Electrical Engineering Technology
  - Senior Project: FM Transmitter and Receiver
- 3.0 GPA

Skills:

- Fiber optic circuit testing (OTDR)
- Spectrum Analyzer
- Service Monitor
- Pathloss 5.0
- Anritsu Software Tools (for OTDR trace analysis)
- EDX Signal
- C Programming
- Mach 3
- Eagle Cad
- MySQL
- ABB PCD2000 Recloser Control
- SEL Protective Relays
- PLC Programming
- Omicron Relay Test Equipment
- Fiber optic Splicing
- Radio System Installation, Testing
- LabVIEW
- Microsoft Office
- CNC Machining
- SolidWorks
- FCC Amateur Radio license General class