Bob Adams

Ann Arbor, Michigan Area
E-mail: bob at bobadams5.com

EXPERIENCE

Hardware Engineer   2016 - Present
Pi Innovo\Dana, Plymouth, MI
- Responsible for ECU design from prototype through production
- Design of LIN & CANFD circuitry for automotive controllers
- Plan, quote external test houses for, and execute DV testing
- Lead Altium library overhaul to improve ECAD data quality
- Travel to production facilities to validate new end of line testers

Freelance Hardware Engineer   2016
Mutant Electron, Novi, MI
- Contract hardware design and PCB layout using Altium Designer 16

Hardware Engineer   2012 - 2016
Hella Electronics Corporation, Plymouth, MI
- Responsible for quoting electrical BOMs for DC and BLDC fuel pump designs to OEM customers
- Design HS-CAN, sensor, and half-bridge interfaces for closed loop DC fuel pump controller hardware
- Generate hardware design documentation including DFMEA, WCCA, & hardware/software interface specifications
- TÜV Nord certification - Functional Safety Certified Automotive Engineer (FS-CAE) (Certificate No. A031_0432/15)

Field Service Engineer   2012
Burke E. Porter Machinery Company, Grand Rapids, MI
- Visit customer sites to install or debug end of line production equipment

Engineering Co-op   2009 - 2012
Takata, Pontiac, MI
- Assist the crash sensors team with hardware development & testing
- Conduct tests on Airbag Control Units (ACUs) including DFMEA verification, functional tests, and failure analysis

EDUCATION

Bachelor of Science, Electrical Engineering
Kettering University, Flint, MI, 2012

VOLUNTEER POSITION

IEEE Southeast Michigan Volunteer   January 2016 - 2019
Various positions

SKILLS

- Automotive analog & digital circuit design
- Circuit simulation & analysis
- Validation test plan writing & execution

COMPUTER SKILLS

Engineering Software: LTSpice, Altium Designer
Programming Languages: Python 3