Bob Adams

Ann Arbor Michigan Area
bob at bobadams5.com

SUMMARY

Electronics engineer with 12 years of experience in the automotive industry performing tasks ranging from schematic entry and PCB layout to project management. I have a wide range of experience across product lines from fuel pump controllers to seat modules to camera systems.

PROFESSIONAL EXPERIENCE

Principal Electronics Engineer

ZF Group, Farmington Hills, MI
April 2022–Present

- Lead hardware activities for the Front Camera Plant Support group, coordinating efforts across local (Michigan) and Mexico team.
- Review camera level risk assessments for component supplier change impacts and present high criticality change assessments to engineering management.
- Review and provide recommendations for adoption of new component multi-sourcing strategies

Senior Hardware Engineer

Pi Innovo / Dana (acquisition), Plymouth, MI
2016 – 2022

- Technical lead for the M130 OpenECU gateway product. Tasks included schematic design, PCB layout, worst case circuit analysis, and DV testing (internal and at environmental/EMC labs).
- Responsible for identifying, rolling out, and training the hardware team on tools for centralized component management (Altium Vault) and worst-case circuit analysis (Smath Studio).
- Supported the development of electronic brake modules, hybrid control modules, and assorted test infrastructure.

Hardware Engineer (Owner)

Mutant Electron, Novi, MI
2016

- Sole proprietorship created to work on schematic and PCB design for small clients with Altium Designer.

Hardware Engineer

Hella Electronics Corporation, Plymouth, MI
2012 - 2016

- Led the development of a DC fuel pump controller (PWM control) as a Tier 2 for an Asia Pacific customer. Performed schematic design, circuit analysis (MathCAD), and requirements review.
- Developed prototypes for sensor-less position measurement of Memory Seat Modules (ripple count).

Engineering Co-op

Takata, Pontiac, MI
2009 - 2012

- Supported the airbag control unit group for development of new controllers including prototyping circuits, bench testing, and verifying DFMEA documentation.

EDUCATION

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

ADDITIONAL SKILLS

- Programming: Intermediate Python & Beginner Rust
- Circuit Design & Simulation (KiCAD, Altium, & LT Spice)
- Fluent in English with a basic understanding of Russian