Noah T. Erickson

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Embedded Systems Engineer with 4+ years of experience in firmware development for the outdoor power equipment industry. Excellent interpersonal and communication abilities, and possesses a wide range of technical skills. Enjoys being part of a team and thrives in high pressure and challenging environments.

PROFESSIONAL EXPERIENCE

Blount International **Portland, Oregon**
Embedded Systems Engineer *June 2015 - Present*

- Designed and implemented motor control firmware for multiple product lines in the outdoor power equipment industry.
- Developed testing and debug interfaces for tool diagnostics and data-logging.
- Designed test fixtures and firmware for functional circuit testing and end of line testing.

Daimler Trucks North America **Portland, Oregon**
Mechatronics Intern *March 2014 - September 2014*

- Failure analysis of 12V systems on trucks.

PROJECTS

ICS 536-E Concrete Cutting Chainsaw **Blount International**

- Developed motor controller firmware that met target power outputs and optimized user experience.
- Developed data-logging interface via Bluetooth and a Python GUI that allowed testing of the product.
- Implemented built-in safety tests in firmware to comply with UL requirements.

Oregon 120V Professional Series **Blount International**

- Circuit design and PCB layout using Altium Designer for a small display that communicated status to users.
- Developed motor controller firmware with communication to battery pack management system. This enabled power output to vary with different battery designs.

QUALIFICATIONS

Languages
Embedded C, Python, C#

Software
Git, JIRA, Code Composer Studio, Microsoft Visual Studio, Android Studio, MP Lab, LabView, Altium

Hardware
Oscilloscopes, Multimeters, JTAG, I2C, RS485, SPI

EDUCATION

Portland State University **Portland, Oregon**
Electrical and Computer Engineering, BS *Graduated June 2016*

PATENTS

- US Patent No. US20180323740A1
- US Patent No. US20180358918A1
- US Patent No. US20190280507A1