

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

Embedded Systems Engineer

Portland, Oregon

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

Mechatronics Intern

Portland, Oregon

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

Electrical and Computer Engineering, BS

Portland, Oregon

Graduated June 2016

PATENTS

- US Patent No. 10,491,152 - Trigger Potentiometer
- US Patent No. 10,469,018 - Power Modulating Motor Control Method