MATTHEW BEHLKE

mbehlke@tesla.com | 413-537-3487

OVERVIEW | Skilled tools developer with experience in embedded applications

SKILLS & ABILITIES | **Languages**: Java (3 yr.), Python (3 yr.), C (2 yr.), Haskell (1.5 yr.), JavaScript (1.5 yr), Assembly – MIPS (1 yr.)

Experienced in Git and Linux

Comfortable with bench testing equipment (oscilloscope, function generator, logic analyzer)

EXPERIENCE | **FIRMWARE ENGINEER** TESLA
JULY, 2016 – PRESENT

Develop high performance auto-generated CAN libraries providing an API for reception and transmission; in use throughout the car

Design and implement custom network specification and corresponding toolchain; integrate with the build system

FIRMWARE INTERN TESLA
JANUARY, 2015 – AUGUST, 2015

Developed and maintained internal web apps and Stash and Jenkins plugins in Java and JavaScript; Developed SCons build scripts and distributed build system in Python

FIRMWARE LEAD RIT ELECTRIC VEHICLE TEAM
FEBRUARY, 2014 – MAY, 2016

Developed battery management system on a PIC and multithreaded data logger and CAN bus manager for Linux on a Beaglebone for an electric race motorcycle

EDUCATION | **ROCHESTER INSTITUTE OF TECHNOLOGY**, ROCHESTER, NY
B.S. COMPUTER ENGINEERING

COMMUNICATION | Regularly review CAN library performance and API requirements with various firmware teams

Participated in hardware design reviews for RIT Electric Vehicle Team