|  |  |
| --- | --- |
|  | 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** TeslaJuly, 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** Teslajanuary, 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 teamFebruary, 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, NYB.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 |