DAVID TYLER

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Summary

Inquisitive Computer Engineer with industry design and test experience in both the hardware and software, strong collaboration experience, and excellent communications skills. Graduating this fall and currently looking for a summer internship.

Industry Experience

- **Clark Solutions**—Hudson, MA 2014-Present
  Junior Engineer
  - Designed, wrote, tested, and shipped a GUI application to allow customers to configure an ultrasonic flowmeter over a MODBUS RTU network from their PC.
  - Ported entire company's codebase from HI-TECH compiler to XC8 compiler.
  - Debugged "spaghetti" code written for a PIC16F886 and refactored it.
  - Implemented source control for all software maintained by company in addition to creating an entire set of QA procedures in order to address product quality issues.
- **Clark Solutions**—Hudson, MA 2009-2012
  Technician
  - Assisted in the design process to build and test new ultrasonic flow meters.
  - Built, tested, and repaired ultrasonic flowmeters.
  - Made software fixes to flowmeter codebase and supporting programs.

Academic Experience

- **Capstone Project**
  - In the process of creating a puzzle game to teach children the basics of logic design and CMOS using physical interconnectable blocks.
- **Real Time Embedded Operating Systems**
  - Used the Micrum microC/OS-III RTOS on the STM32F107 microcontroller to implement a command and control system for networked robots.
- **Microprocessors II**
  - Project leader to use a PIC microcontroller to record timestamped light intensity measurements and report it to a webserver using a custom linux kernel driver.
- **Embedded Control**
  - Worked with a group to design, build, and program a blimp for autonomous operation

Education

- **University of Massachusetts Lowell**—Lowell, MA Expected Graduation: December 2014
  B.S. in Computer Engineering GPA: 3.5
- **Rensselaer Polytechnic Institute**—Troy, NY 2006-2008
  Enrolled in Computer Engineering

Skills

- **Programming Languages:** C, C++, Python, LISP, SQL, MIPS, x86, PIC16, MSP430l
- **Operating Systems:** Microsoft Windows, Linux (Arch, Slax), OS X
- **Tools:** vim, git, mercurial, svn, MATLAB, SolidWorks, Multisim, Django, MPLAB, Labview, Eagle PCB
- **Office Software:** Microsoft Office, OpenOffice, LaTeX

Activities

- Eagle Scout