Kyle C. Vedder

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Skills

- Proficient in Java (Eclipse/Netbeans) and C/C++ (Visual Studio/Emacs)
- Experience with git, Python, SQL, Javascript, HTML, CSS, Bash, FORTH
- Develop on Windows and Debian Linux
- Agile and Waterfall development methodologies
- Web Service development, Robotic systems programming and development, Microcontroller programming, Socket programming, some Real-Time system development

Employment History

Unidesk Corporation – C++ Developer (Summer 2015)

Worked with a team of engineers to successfully design and implement a framework to test proprietary offline Windows registry hive manipulation APIs. Wrote C++ framework to call Win32 APIs to provide setup and validation of registry hives manipulated by Unidesk's registry hive editor.

Unidesk Corporation – Robotics Internship (Summer 2014)

Worked with the CTO and CMO to successfully implement an articulated robot arm for a trade show to be manipulated by attendees through an iPad. Wrote Java backend to implement a JSON based web service to accept high-level user input, translating the commands into lower-level FORTH commands to choreograph robot movements while avoiding collisions.

Education

University of Massachusetts Amherst (2015 – Present)

BS in Computer Science, Expected Graduation: May 2019

Shrewsbury High School (2011 - 2015)

Graduated: May 2015. GPA: 3.55/4.00, SAT: 2120

Activities

FIRST Robotics FRC Team 467 (2012 - 2015)

- *Lead Programmer (2013 - 2015):* Led a team of several students to program a robot to meet each year's challenge within a six week development period. Coordinated architecture and design with the Electrical Team to wire the robot and define robot sensors.
- *Steering Committee Member (2014 - 2015):* Worked with a team of five students to run twice-weekly meetings, oversee sub-team coordination, and manage build schedule.

FIRST Robotics FLL Mentor (2013 - 2015)

- Mentored teams of eight to ten middle school students building Lego robots, completing research projects, and competing at FIRST FLL competitions.

Counselor for Summer Technology Camp (2012 - 2014)

- Mentored groups of elementary and middle school students building Lego robots and constructing model rockets and trebuchets.

National Honor Society (2014 - 2015)

- *Communications Committee Chair (2014 - 2015):* Led a team of twelve students to produce a television spot advertising the talent show held by the National Honor Society.

Awards

Most Technically Challenging Project Award at Blueprint HackMIT Hackathon (2014)

- Developed a working application in eight hours with a team of three other high school students that provides free internet access via SMS text messages. Implemented an HTTP service backend in Java.