Alex Fuhr

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Objective

An internship, co-op, or part time position in hardware or software development during the school year, summer 2014, or autumn 2014.

Education

The Ohio State University **Expected Gradutation: May 2017**
4.0 GPA, B.S. Electrical and Computer Engineering

Work Experience

Zakta — Developer Intern **June-August 2013, October 2013-present**
Utilized the existing Zakta libraries and authentication methods as well as JSON, XML, RSS, and HTML parsing to write and test Java programs that connect search results from various search engines to Zakta's search engine.

Math Tutor **March-August 2013**
Helped a student learn and master the concepts of his online algebra course.

Multi Color Corporation — Desktop Maintenance Intern **July-August 2012**
Assisted the IT helpdesk with setup of new computers and workspaces, as well as solving networking and computer issues in the workplace.

Technical Skills

- Knowledge of C#, Java, Python, C, and C++ syntax, data structures, and common libraries
- Web development using HTML, CSS, Javascript, JQuery, PHP, Apache, and MySQL
- FIRST Robotics controls, programming using LabVIEW, and design using Autodesk Inventor
- Experience with HTML parsing and OAuth as well as RSS, XML, and JSON-based APIs
- Development in both Windows and Linux environments and command lines
- Experience with low-level programming concepts such as boolean algebra, graph theory, LISP, and assembly language
- Experience with Arduino development, electrical components, and wiring

Relevant Coursework

- **Current:** Fundamentals of Engineeing for Honors II: Robotics, Linear Algebra, Software I: Components
- **Past:** AP Physics: Electricity & Magnetism, AP Calculus BC (Calc I and II), AP Computer Science (intro to Java and Java data structures), Fundamentals of Engineering for Honors: Advanced Programming (C/C++ and MATLAB), Calc III

Activities

- **Engineering/Computer Science:** Open Source Club, Engineers for a Sustainable World, Collegiate Web Developers Group, Electronics Club
- **Music:** Collegiate Winds, Latin Jazz Combo, Jazz Workshop Ensemble

Honors

- **Designations:** OSU Fundamentals of Engineering Honors Program, AP Scholar with Distinction
- **Scholarships:** Maximus Scholar, Engineering Dean's Award, Hendrix Scholar, Lakota East Mu Alpha Theta Scholarship

Projects (more information and source on Github)

- **Modular Web Based Alarm Clock:** Created at OSU hackathon 2013 as a team of 4, a desktop alarm clock that can be configured to read Web data such as Google Calendar and RSS feeds
- **Arduino-Controlled Christmas Lights:** Used an Arduino to control an EL wire and and RGB LED strip simultaneously with display to an LCD screen and input from buttons and potentiometer.