

Alec Ross Fenichel

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Objective

Obtain an internship position offering mechanical, electrical, and/or programming experience for Summer 2016.

Education

Georgia Institute of Technology (Atlanta, GA) Jun '11 – present
Pursuing Bachelor of Science in **Mechanical Engineering**
Pursuing Bachelor of Science in **Computer Science**
Expected Graduation: **May 2017**

Honors Program

Technical Experience

BMW Group – R&D Engineer Intern (Munich, Germany) Aug '14 – Dec '14

- Worked on small team to develop and test prototype for use in future cockpit of automated vehicles
- Developed GUI using MATLAB to monitor and control prototype via UDP in real time for dynamic simulator testing
- Created electrical system and software for controlling linear actuator with pulse width modulation using C
- Created custom PCB Arduino shield and software for recording feedback with force sensitive resistors using C

Alpha Epsilon Pi Zeta Chapter – Webmaster (Atlanta, GA) May '14 – Dec '14

- Developed internal website using Drupal CMS and Pydio for managing users and internal documents
- Integrated Georgia Tech's LDAP database with user management system and utilized CAS servers for authentication

McKenney's, Inc. – Information Technology Intern (Atlanta, GA) May '14 – Aug '14

- Diagnosed and resolved technical issues related to hardware and software
- Developed automated system for sharing files with contractors via FTP using HTML, JavaScript, PHP, and batch

Georgia Tech IEEE – Webmaster (Atlanta, GA) Aug '11 – May '14

- Developed new website using HTML, CSS, JavaScript, and PHP
- Placed in IEEE SoutheastCon Website Competition every year – 1st Place (2014), 1st Place (2013), 3rd Place (2012)

General Electric Aviation – Software Engineer Intern (Cincinnati, OH) May '12 – Aug '12

- Developed software for first dual core jet engine controller using SCADE qualified C code generator
- Created automated tool for gathering and analyzing licensing server data using Perl, VBA, and batch
- Created project tracking system to quickly identify problematic deadlines using VBA

Georgia Tech IEEE – Innovation Team Technical Lead (Atlanta, GA) Aug '11 – May '12

- Designed object detection system for competition robot using infrared, ultrasonic, and tactile sensors
- Programmed movement algorithms for advanced line following using BASIC and C

Skills

Programming: C, Java, MATLAB, LabVIEW, JavaScript, SQL, HTML, CSS, Unix shell, VHDL, assembly

Software: Git, Autodesk AutoCAD, Autodesk Inventor, Microsoft Office Suite

Platforms: Windows XP/Vista/7/8, Mac OS X, Ubuntu

Manufacturing: Soldering, table saw, miter saw, band saw, drill press, router, mill, lathe

Projects

Resume Generator – <https://github.com/fenichelar/resume> Mar '15 – present

- Tool for creating resume by compiling JSON content and HTML layout using JavaScript, jQuery, and Handlebars

Arduino Pin Library – <https://github.com/fenichelar/Pin> Dec '14 – present

- Arduino library for fast digital I/O using port register manipulation written in C++

Leadership Experience

Georgia Tech – Creative Decisions and Design Assistant (Atlanta, GA) May '15 – Jul '15

- Supervised and assisted students with machining and LabVIEW programming

Georgia Tech Housing – Harrison Hall Peer Leader (Atlanta, GA) Aug '12 – Dec '12

- Worked with freshmen to facilitate and develop a community environment within Harrison residence halls

Georgia Tech – Freshman Seminar Team Leader (Atlanta, GA) Aug '12 – Dec '12

- Mentored group of new students in their transition to college life at Georgia Tech