

# Alec Ross Fenichel

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## Objective

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

## Education

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**Georgia Institute of Technology** (Atlanta, GA) Jun '11 – present  
Bachelor of Science in **Mechanical Engineering**  
Bachelor of Science in **Computer Science**  
Expected Graduation: **May 2017**  
GPA: **3.00**

### Honors Program

## Technical Experience

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**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

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**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

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**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

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**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

