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Education

Princeton University, Princeton, NJ								June 2018
B.S.E in Electrical Engineering
Coursework includes: Programming Systems; Algorithms and Data Structures; Computer Architecture; Information Signals; Linear Algebra; Electronic Circuits; Control Systems; Cumulative GPA: 3.82/4.0

Experience

Electric Imp, Los Altos, CA – *Maker in Residence*					June 2016 - Present
Worked closely with engineering and business teams to create Internet of Things solutions for industries ranging from industrial monitoring to consumer goods. Devised proof-of-concept demonstrations for potential customers and partners. Applied design for manufacturing and rapid prototyping techniques to quickly bring products from concept to completion.

Sandia National Laboratories, Livermore, CA – *Technical Undergraduate Intern*	June - August 2015
Collaborated with multidisciplinary team of analysts and other interns on an open-ended research project related to cyber supply chain security. Produced report on findings and presented briefing to team members and senior staff. Recommendations incorporated into development of a product for the Department of Homeland Security.

Cupertino Amateur Radio Emergency Service, Cupertino, CA – *Field Responder*	2009 - Present
Developed mesh network from repurposed commercial wireless routers. Awarded Santa Clara County Emergency Manager Association's 2013 Mick McDonald Volunteer of the Year Award.

Leadership and Community Involvement

Princeton Autonomous Vehicle Engineering, *Electrical Systems Lead*		Fall 2014 – Present
Managed design and installation of electrical subsystems to convert a 2013 Ford Focus to autonomous drive. Improved project management and communications skills by coordinating tasks assignment and scheduling between PAVE sub-teams.

Princeton 3D Printing Club, *Secretary*					Fall 2014 – Present
Established procedures and funding sources to provide free student access to three on-campus 3D printers. Organized events and training sessions to increase awareness of 3D printing technology throughout the Princeton community.

Projects

Junior Project – Perform radio moon ranging experiments on the Project Diana dish		Fall 2016
Develop DSP algorithms with GNURadio and USRP software defined radios

PolitEcho – Determine political bias from your Facebook friends and news feed		Fall 2016
Facebook Global Hackathon Finals 2016 – Honorable Mention
https://politecho.org

Carvis – Autonomous sound-localizing guard robot built on a RC car chassis		Spring 2016
https://github.com/AG6GR/Carlab-Report

PANDA - IoT pillbox that reminds you when to take your medicine			Fall 2015
HackPrinceton Fall 2015 - 3rd Place Hardware Hack and Facebook's Favorite Hack
https://github.com/AG6GR/PANDAv2

Skills

Java, C/C++, Python, JavaScript, MATLAB, Android, UNIX/Linux, Microsoft Office
Altium Designer, EAGLE, SPICE, AutoCAD, OpenSCAD, Blender
Soldering, Machine tools, 3D Printing, Extra Class Amateur Radio License (Callsign AG6GR)