

Aaron Childers

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Education

Northern Arizona University

Bachelors of Science in Electrical Engineering

May 2016 – GPA: 3.53

Technical Skills

- Understanding of electronics circuit analysis and design using components and computer simulations
 - Interested in power electronics, embedded systems, electric drives, DSP, and wireless systems
 - Proficient in MATLAB, AutoCAD, AHDL, VHDL, Visio, and OrCAD
 - Basic knowledge of CMMS systems, C, HTML, Java, Python, and machining with hand mills
 - Skilled in problem solving, multitasking, scheduling, and project management
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Experience

NASA Particle Beam

August 2015 – Present

- Designing a four-sensor radiation imaging system with capstone team
- Creating OrCAD schematics and board layouts
- Writing AHDL and MATLAB codes

Southwest Experimental Garden Array (SEGA)

September 2015 – Present

- Building and testing controller boards with research team
- Developing an educational interactive kiosk to test the sensor-actuator functions of SEGA gardens

Class Team Projects

August 2013 – Present

- Designed and built an automated robotic solar tracker
- Developed an automated robotic window shade
- Constructed a hand-crank generator

ViaSat Intern

May 2015 – August 2015

- Completed building power quality improvement project
- Implemented electric vehicle charging stations
- Updated AutoCAD building space designs and created new 3D AutoCAD designs
- Developed a game in 48 hours to teach children coding (hackathon event)
- Worked with facility single-line diagrams and power systems

Circuits Lab Aid

August 2014 – May 2015

- Helped students understand circuitry concepts and troubleshooting circuits
- Assisted students using oscilloscopes, digital multimeters, and various computer simulators

Los Angeles Department of Water and Power (LADWP) Intern

May 2013 – August 2013

- Documented LADWP supervisory control and data acquisition (SCADA) systems
 - Configured industrial process controllers (PLCs) and human machine interfaces (HMIs)
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Awards

- Eagle Scout Award of the Boy Scouts of America October 2012
- Dean's List Student Fall 2012–Fall 2015