

Leah Collins

Contact

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Key Skills

Python	Java	Cyber Security/Cryptography
Microprocessors/ VHDL	Arduino/ Raspberry Pi	Altera Cyclone 5
Assembly	Logic Design	Circuit Design

Projects

Quantum Cryptography	Basic implementation of Quantum Qubit using an optical line, polarizers, and LEDs.
Whiteboard Teaching Aid	A whiteboard and marker that allows teachers to have the image of their notes uploaded as a digital file to help students and teachers communicate using pressure sensors, a Raspberry Pi, and Bluetooth connectivity.
Solar Power Plant Design	A 5 gigawatt system, analyzed using SAM, built with CPS Inverters, Canadian Solar, and connected to the grid.
PUF using Accelerometer	Using one calibrated accelerometer against eight uncalibrated to create a digital challenge.

Education

2013 to Current	Northern Arizona University – Senior – 3.11 GPA (studying Electrical Engineering with a Computer Science Emphasis)
2009 to 2013	Valley Vista High School

Work Experience

Northern Arizona University Student Unions Student Manager <ul style="list-style-type: none">✓ Plan training for all employees✓ Discipline employees when needed✓ Manage staff to make sure all tasks are completed	November to Present 2014-2016
Northern Arizona University Student Unions Shift Lead <ul style="list-style-type: none">✓ Setup and clean rooms for upcoming events✓ Organize shift to make sure all tasks are completed✓ Greet visitors who come to campus	April to November 2014
Northern Arizona University Student Unions Desk Staff <ul style="list-style-type: none">✓ Answer any questions that come up or use school website to find answer✓ Setup and clean rooms for upcoming events✓ Greet visitors who come to campus	January to April 2014

Awards

Top 10 (Rank 7 in my graduating high school class)	Lumberjack Scholars Award (Tuition Waiver)
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