

William Laney

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Education

College of William & Mary

B.S. Physics with Honors and Mathematics minor

Williamsburg, VA

Aug 2014-Jan 2018

- GPA: 3.6
 - Dean's List & Alumni Research Prize in Physics (1 awarded annually)
 - President, William & Mary Robotics Club
 - Electronics Group Leader, TribeSat satellite development program
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Undergraduate Research

Sharkduino

Student Researcher/ William & Mary Research Experience for Undergraduates (REU)

Williamsburg, VA

May 2015-present

- Prototyped and developed a low power sensor system based on Arduino microcontrollers
 - Designed printed circuit boards (PCBs) in Eagle, then assembled them using a solder reflow oven
 - Conducted initial deployments of the system on live animals in a semi-controlled environment
 - Documented progress in a weekly blog, and reported results in presentations and poster sessions
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Technical Work Experience

BAE Systems, Space Products & Systems

Virginia Microelectronics Consortium (VMEC) Intern

Manassas, VA

May -Aug 2017

- Conducted a study of PCB cleaning techniques to improve manufacturing process efficiency
- Created database of radiation exposure of microelectronics during X-ray inspection
- Identified and enacted changes to bring digital radiography system into compliance with MIL-STD-883K
- Participated in KT root cause analysis

Acorn Science & Innovation

Junior Analyst

McLean, VA

May -Aug 2015

- Analyzed long dwell magnetic gradiometer data to discern likely unexploded ordnance (UXO) from clutter
- Used a developmental version of a specialized geographic information system (GIS) with a custom classification toolkit intended for operational use
- Performed workflow analysis, data quality assessment, parameter tuning, and algorithm validation

Walter Reed Army Institute of Research (WRAIR)

Intern, Army Science and Engineering Apprenticeship Program (SEAP)

Silver Spring, MD

July -Aug 2014

- Conducted stereology research relating to the development of drugs to protect the brain after exposure to chemical weapon nerve agents
 - Analyzed data collected from experimentation
 - Presented a poster and abstract on research findings at WRAIR summer research symposium
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Other Work Experience

Tribe TutorZone

Tutor

Williamsburg, VA

Jan 2017-present

Hunter Mill Country Day School

Assistant teacher

Vienna, VA

June -Sept 2013

Technical Skills

Software: Eagle, MATLAB, R, \LaTeX , Git, BASH, Mathematica, Microsoft Technology Associate Certifications

Hardware: Arduino, Raspberry Pi, Soldering, Oscilloscope, Logic Analyzer, Voltmeter, Carpentry, Laser Cutting

Activities

Eagle Scout, DJ for campus radio station WCWM, W&M Makerspace Users Board, Alpha Epsilon Pi fraternity