

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 2017-Aug

- 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 2015-Aug

- 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 2014-Aug

- 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 2013-Sept

Technical Skills

Software: MATLAB, Eagle, R, \LaTeX , Git, Mathematica, BASH, 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