

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
 - **Relevant Coursework:**
Electronics, Statistical Data Analysis, Scientific Instrumentation Lab, Electricity & Magnetism I/II
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Undergraduate Research

Sharkduino

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

Williamsburg, VA

May 2015-Dec 2017

- Prototyped and developed a low power and portable 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
 - Reported results in thesis, presentations, and poster sessions; documented progress in a weekly blog
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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
 - 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-Dec 2017

Hunter Mill Country Day School

Assistant teacher

Vienna, VA

June -Sept 2013

Technical Skills

Software: MATLAB, Eagle, R, 5Spice, L^AT_EX, Git, BASH, I²C, SPI, Microsoft Technology Associate Certifications

Hardware: Oscilloscope, Digital Multimeter, Logic Analyzer, Power Supplies, Soldering, Laser Cutting

Activities

Eagle Scout, DJ for campus radio station WCWM, AEII fraternity, IIME Mathematics Honors Society