

William Laney

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Education

College of William & Mary

B.S. with Honors Physics and Mathematics minor

Williamsburg, VA

Aug 2014-Jan 2018 (expected)

- GPA: 3.55
 - Dean's List: Spring 2015 and Fall 2016
 - President of the William & Mary Robotics Club
 - Electronics group leader for TribeSat, William & Mary's first satellite development program
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Undergraduate Research

Sharkduino

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

Williamsburg, VA

May 2015-present

- Partnered with Virginia Institute of Marine Science (VIMS) to create an underwater animal tag system
 - 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
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Technical Work Experience

AcornSI

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

- Tutored peers one on one in physics and mathematics

Hunter Mill Country Day School

Assistant teacher

Vienna, VA

June 2013-Sept

- Supervised a class of up to 30 children and led them in activities
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Technical Skills

Software: Eagle, R, MATLAB, L^AT_EX, Git, Mathematica, BASH

Hardware: Soldering, Carpentry, Laser Cutting, 3D Printing, Metal Work

Microsoft Technology Associate Certifications:

Windows Server Administration Fundamentals, Windows Operating System Fundamentals, Security Fundamentals, Networking Fundamentals

Activities

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