William Laney

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Education

College of William & Mary   **Williamsburg, VA**
B.S. with Honors Physics and Mathematics minor   *Aug 2014-Jan 2018 (expected)*

- GPA: 3.57
- 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

Undergraduate Research

Sharkduino   **Williamsburg, VA**
Student Researcher/ William & Mary Research Experience for Undergraduates (REU)   *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

Technical Work Experience

AcornSI   **McLean, VA**
Junior Analyst   *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)   **Silver Spring, MD**
Intern, Army Science and Engineering Apprenticeship Program (SEAP)   *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

Other Work Experience

Tribe TutorZone   **Williamsburg, VA**
Tutor   *Jan 2017-present*

- Tutored peers one on one in physics and mathematics

Hunter Mill Country Day School   **Vienna, VA**
Assistant teacher   *June 2013-Sept*

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

Technical Skills

Software: Eagle, R, MATLAB, LaTeX, 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