

# William Laney

10411 Hunter View Rd. Vienna, VA 22181  
(703) 944-7337 • williamlaney@yahoo.com • www.williamlaney.com

---

## 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
- 

## 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
- 

## Technical Work Experience

### 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
- 

## 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*

---

## Technical Skills

**Software:** Eagle, R, MATLAB, L<sup>A</sup>T<sub>E</sub>X, 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