

William Laney

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Education

- **The College of William & Mary**
B.S. Physics, Minor Mathematics

- GPA: 3.51
- Dean's List: Spring 2015
- Vice President of the William & Mary Robotics Club

Williamsburg, VA
Aug 2014-Jan 2018 (expected)

- **James Madison High School**
GPA: 4.08

Vienna, VA
June 2014

Undergraduate Research

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

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 micro controllers
 - 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
 - Presented a poster on research findings, and won 1st place in the poster presentation competition
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Work Experience

- **AcornSI**
Junior Analyst

McLean, VA
May 2015-Aug

- Analyzed long dwell magnetic gradiometer data to discriminate 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

- **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: MATLAB, Eagle, L^AT_EX, Arduino, Raspbian, Git

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

Microsoft Technology Associate Certifications:

- 98-365: Windows Server Administration Fundamentals
 - 98-349: Windows Operating System Fundamentals
 - 98-367: Security Fundamentals
 - 98-366: Networking Fundamentals
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Interests

Eagle Scout, Member of W&M Makerspace Users Board, DJ on WCWM, member of Alpha Epsilon Pi fraternity