

# William Laney

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## Objective

STEM major with real world experience in data analysis and prototype hardware/software integration seeking Summer 2017 employment, with possible bridge to January 2018 full-time position.

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## Education

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

**Williamsburg, VA**  
*Aug 2014-Jan 2018 (expected)*

- GPA: 3.51
  - Dean's List: Spring 2015
  - Vice President of the William & Mary Robotics Club
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## 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
  - Developed data importing and analysis algorithms in MATLAB
  - Prototyped and developed a low power sensor system based on Arduino micro controllers
  - 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 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
- Performed statistical analysis on 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<sup>A</sup>T<sub>E</sub>X, Git, Mathematica, Python, Arduino, Raspbian

**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

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## Interests

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