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.

Education

- **The College of William & Mary**   **Williamsburg, VA**
  B.S. Physics, Minor Mathematics   *Aug 2014-Jan 2018 (expected)*
    - GPA: 3.51
    - Dean's List: Spring 2015
    - Vice President of the William & Mary Robotics Club

Undergraduate Research

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

Work Experience

- **AcornSI**   **McLean, VA**
  Junior Analyst   *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)**   **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
    - 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**   **Vienna, VA**
  Assistant teacher   *June 2013-Sept*
    - Supervised a class of up to 30 children and led them in activities

Technical Skills

Software: MATLAB, Eagle, LaTeX, 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

Interests

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