

## **EDUCATION**

**PURDUE UNIVERSITY, West Lafayette, IN - B.S. Computer Engineering** **May 2021**  
Multivariable Calculus, Differential Equations, Digital System Design, Advanced C Programming

**THOMAS JEFFERSON HIGH SCHOOL FOR SCIENCE AND TECHNOLOGY, Alexandria, VA** **Jun 2017**  
Ranked #1 on U.S. Newsweek  
AP Computer Science Plus Data Structures, Artificial Intelligence, Computer Vision, GPA:4.1  
AP Calculus BC, Neurobiology, Organic Chemistry, DNA Science

## **TECHNICAL SKILLS**

**Programming Languages:** Python, Java, C, C++, MATLAB  
**Computer Skills:** Microsoft Office  
**Hardware:** Microcontrollers, MUSE (EEG headset)  
**Laboratory:** Cell Cultures, PCR, Gel electrophoresis

## **EXPERIENCE**

**The Aerospace Corporation, Chantilly, VA** **May 2018 – July 2018**  
Technical Intern

- Designed and helped implement linked library in C for National Imagery Transmission Format (NITF)
  - Optimized for scalability, efficiency, and ease of use
- Performed change detection analysis on satellite imagery using various machine learning models
- Evaluated performance of models, suggested steps for future work

**Fairfax Collegiate, Chantilly, VA** **Jun 2017 – Aug 2017**  
Assistant Instructor

- Taught Raspberry Pi, Civil Engineering, Pre-Algebra, Cryptography, EV3 Mobile Robotics, Forensic Science, and Elementary Debate to 5<sup>th</sup>-8<sup>th</sup> graders

**Neural Engineering Laboratory | George Mason University, Fairfax, VA** **Jul 2016 – Feb 2017**  
Intern - Aspiring Scientists Summer Internship Program

- Developed boredom-based e-Learning system to help those suffering with attention deficit disorder
- Established EEG (electroencephalogram) - MATLAB connection for live data stream and analysis
- Conducted offline EEG recording trials

## **LEADERSHIP**

**Institute of Electrical and Electronics Engineers (IEEE) Computer Society – Events Coordinator** **Sep 2017 – Present**

- Coordinate and design challenges for events such as IEEEExtreme, HacktheStack
- Data analysis for “Quevihn”, a robotic/virtual health assistant

**Growth and Inspiration Through Volunteering and Education (GIVE) - Executive Director** **Jun 2015 – May 2017**

- Student-run non-profit organization that cultivates leadership among youth through free tutoring, community projects
- Head of Center Development committee (Summer Core Team 2016) -Developed curriculum for students in grades K-6
- Center Manager of Chantilly Library Tutoring Center (2015-2016) - Managed center activities
- Member of Community Projects committee (Summer Core Team 2015) - Developed presentations for K-6 schools

**Mythvestigations – Club President** **Apr 2015 – May 2017**

- Aims to foster a love of STEM in middle school aged students through annual Invitational Science Fair
- Organized and ran Invitational Science Fair 2016 and 2017
- Recruited judges, held descriptive statistics workshops for participants, and sent feedback to participants

## **INVOLVEMENTS**

**Women in Engineering Mentors & Mentees Program – Small Group Member** **Sep 2017 – Present**

- Attend meetings twice a month to give and receive guidance from engineering students and alumni