

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 5th-8th 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