## 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 $5^{th}$-$8^{th}$ 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 IEEExtreme, 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