MAI VO
U.S. CITIZEN / DoD Secret Clearance

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EDUCATION

Georgia Institute of Technology
Atlanta, GA | *May 2023*

B.S. Computer Engineering
Honors Program

GPA: 3.35

Rewriting the Code Fellow 21

SKILLS

Software / Tools:
Altium
KiCad
Git
Microsoft Visual Studio Code

Skills:
Soldering
Circuit Design

Programming Languages:
C++
C
Java
Python
VHDL
IDL
Qt
HTML
CSS
Javascript

Relevant Coursework:
Digital Design Lab
Computer Organization and Programming
Data Structures and Algorithms
Object Oriented Programming
Linear Algebra
Intro. Signal Processing

Organizations:
Yellow Jacket Space Program
PAXC @ NASA - Exec Board
WoAA National
Journey Church of Atlanta
SGAC

Languages:
Vietnamese   (Proficient)
Korean   (Beginner)

Interests:
Space   Guitar
Working Out   Reading

EXPERIENCE

NASA Goddard Space Flight Center   *Greenbelt, MD | Virtual*
Electrical Ground Support Equipment Pathways Intern   *August 2020 – January 2021*
- Created a proposal for an EGSE board to test the Roman Space Telescope's (RST) deployment system; developed high-level technical requirements and procedures for testing
- Proposed changes to original schematic design using Altium, integrating PCB with magneto-resistive current sensors, optimizing to remove overall noise from the system
- Converted IDL scripts to Python using the FITS file package for the Science Data Systems Branch to filter out astronomical image defects for the RST

Yellow Jacket Space Program   *Atlanta, GA*
Software Lead - Avionics Team – Propulsion Electronics   *April 2019 – Present*
- Leading software development and design logic for engine controller used for testing and flight using C++ and teensy; assisting data acquisition software development using load cell sensor
- Developing a PCB for a field reader to test sensor functionality on the testing field using Altium
- Developed a light, encompassing schematic using KiCad for the engine controller to turn engine valves on or off for testing purposes, interfacing with a control room and teensy

Systems Team   *January 2019 – August 2019*
- Developed YJSP engineering specifications; integrating and testing different projects by each team using models and simulations; returning necessary feedback
- Interpreted software for a 6DOF simulation, documenting usage using LaTeX

Lockheed Martin   *Huntsville, Alabama | Virtual*
UX/UI Intern   *May 2020 – August 2020*
- Supported development teams with run-ahead user experience designs in a SaFE Agile environment to improve a missile simulation web application
- Communicated with the customer, product owners, development teams, and architects to ensure designs accurately convey information architecture to the user
- Solved design issues by optimizing the efficiency of the design to showcase large quantities of information to the users

The Aerospace Corporation   *El Segundo, CA*
Software Engineering Intern   *May 2019 – August 2019*
- Contributed to the user-interface of a cutting-edge proprietary satellite visualization engine using C++, OpenGL, and the Qt-based framework by adding features to make development and customer usage effortless and more efficient

LEADERSHIP & RESEARCH

Space Systems Design Lab – Glenn Lightsey Research Group at Georgia Tech
Undergraduate Researcher   *Atlanta, GA*
GT-2 SmallSat – Avionics   *January 2021 – Present*
- Developing the avionics system for GT-2, a cubesat, putting together avionics systems requirements and researching different options for a new deployment system
- Designing the ground support equipment PCB and box for ground testing

Mission Operations   *August 2019 – December 2019*
- Developed an application to receive and display current GT satellite data using HTML, CSS, Javascript, and MongoDB

Sensor Testing Rig and Operation Systems Project   *January 2019 – May 2019*
Command and Data Handling Team, Attitude, Determination, and Controls Team
- Worked with electronics such as the GPS, magnetometer, and IMU to find flight position; created sensor wires and cables for testing and flight

NASA L'SPACE Mission Concept Academy   *Virtual*
Deputy Project Manager & Web Lead   *May 2020 – July 2020*
- Managed a interdisciplinary team working with NASA engineers to learn mission proposal procedures to develop & propose a mission concept to Mars, completing a PDR within 12 weeks