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: 3.42

Rewriting the Code Fellow 20-21

SKILLS

Software / Tools:

LabVIEW	Eagle
Altium	VS Code
KiCad	MS Access
Git	

Skills:
Harnessing
Soldering
Circuit Design

Programming Languages:

C++	CSS
C	Javascript
Java	HTML
Python	MIPS
VHDL	R
IDL	MySQL
Qt	

Relevant Coursework:
Digital Design Lab
Comp. Organization and Prgrming
Data Structures and Algorithms
Object Oriented Programming
Linear Algebra
Intro to Signal Processing
Circuit Analysis
Prgrming HW & SW Systems

Organizations:
Yellow Jacket Space Program
PAXC @ NASA - Exec Board
WoAA National
Journey Church of Atlanta
Students for the Exploration and Development of Space

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 — *May 2021 – August 2021*
- Developed harnessing for an EGSE rack to deploy circuits for the Roman Space Telescope's (RST) deployment system and measure resistance across hingepots and circuits
- Used LabVIEW to develop software to create functionality for the rack – integrated with NI's PXI chassis, ensuring precise and accurate measurements and logging information
- Ensured all documents for wire harnesses included correct technical specifications and developed software tools for database sorting in Microsoft Access for PACE using MySQL

Software & EGSE Pathways Intern — *August 2020 – January 2021*
- 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
- Created a proposal for an EGSE board to test RST's deployment system; developing high-level and technical requirements and procedures for testing
- Integrated board with an FPGA using Altium for PCB design; optimizing for quiet current feedback using magneto-resistive current sensors

Yellow Jacket Space Program — *Atlanta, GA*
Software Lead - Avionics Team – Propulsion Electronics — *April 2019 – December 2020*
- Led 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
- 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

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

The Aerospace Corporation — *El Segundo, CA*
Software Engineering Intern — *May 2019 – August 2019*
- Contributed to a cutting-edge proprietary satellite visualization engine using C++, OpenGL, and Qt by adding features to make development and customer usage effortless
- Optimized efficiency of usage for the web interface of a satellite intercept and rendezvous visualization tool by developing the web interface using Javascript, HTML, and CSS

LEADERSHIP & RESEARCH

Space Systems Design Lab – Glenn Lightsey Research Group at Georgia Tech
Undergraduate Researcher — *Atlanta, GA*
GT-2 — *January 2021 – Present*
- Developing acceptance test procedures for cubesat -Z plate and main board for future testing purposes–soldering components onto board and transitioning to leadership position for Spring
- Created harness and developed stress test & logging software using Python to test the Onion Omega2s+ for performance optimization and temperature in a TVAC chamber
- Developed & routed a flatsat PCB using Eagle to connect 7, 52-pin cubesat panels in a one-to-one configuration for testing & debugging
- Prototyped and tested new method for solar panel deployment using nitinol wire

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