

EDUCATION

Georgia Institute of Technology
Atlanta, GA | May 2023

B.S. Computer Engineering
Honors Program

GPA: 3.35

Rewriting the Code Fellow 20-21

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

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
Electrical Ground Support Equipment Intern

Greenbelt, MD | Virtual
August 2020 – Present

- Creating a proposal for an EGSE board to test the Roman Space Telescope's deployment system using Altium for PCB design
- Integrating board with an FPGA and optimizing for quiet current feedback using magneto-resistive current sensors
- Converted IDL scripts to Python for the Science Data Systems Branch to filter out astronomical image defects for the Roman Space Telescope

Yellow Jacket Space Program
Avionics Team – Propulsion Electronics

Atlanta, GA
April 2019 – Present

- Create and design circuit schematics and developing printed circuit boards using KiCad for propulsion electronics and avionic sensors for a rocket to space
- Developing a schematic for a field reader to test sensor functionality on the testing field using Altium
- Developed a light, encompassing schematic 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
UX/UI Intern

Huntsville, Alabama | Virtual
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
Software Engineering Intern

El Segundo, CA
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
- 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 creating a smoother user experience

LEADERSHIP & RESEARCH

NASA L'SPACE Mission Concept Academy
Deputy Project Manager & Web Lead

Virtual
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

Space Systems Design Lab – Glenn Lightsey Research Group at Georgia Tech
Undergraduate Researcher
Mission Operations

Atlanta, GA
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
Command and Data Handling Team, Attitude, Determination, and Controls Team

January 2019 – May 2019

- Worked with electronics such as the GPS, magnetometer, and IMU to find flight position; created sensor wires and cables for testing and flight
- Prepared circuit boards for flight through soldering and placement of components