

Jairus Elarbee
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2677 Avenir Place, Unit 3406
Vienna, VA 22180

EDUCATION

Georgia Institute of Technology, M.S. Aerospace Engineering, May 2019

- GPA: 3.52
- Concentration in precision orbital mechanics and systems design and optimization

Georgia College and State University, B.S. in Physics, December 2015

- GPA: 3.73 - Eta Sigma Alpha Honor Society

WORK EXPERIENCE

Orbit Analyst - December 2019 - March 2020

OneWeb (7900 Tysons One Placem McLean, VA, 22102)

- Responsibilities included monitoring conjunctions, scheduling maneuvers and slews, and troubleshooting orbit determination procedures for 74 satellites in a live operational environment among a crew between 9-20 people
- Worked day and night shifts in the operations center as a member of the flight dynamics team through two launches with 34 satellites each, working with space craft in LEOP, orbit raising, and station keeping
- Developed and programed software for interacting with SQL databases and system automation using Python

Graduate Research Assistant - August 2018 - May 2019

Georgia Tech Space Systems Design Laboratory (275 Ferst Dr NW #3, Atlanta, GA 30332)

- Developed and applied precision orbit determination techniques for use in the RANGE cube-sat mission
- Used Python scripting with various software packages, including MONTE and GipsyX, to develop a GPS data processing methodology for use in future SSDL cube-sat missions

iOS App Developer - May 2013 - May 2017

Jairus Elarbee (2451 Clack Road, Madison Georgia 30650 706-818-4735) - Self-Employed

- Dozens of Apps designed and published
- Over thirty thousand individual downloads
- Self-started and individually operated

Physics Lab Assistant - August 2014 - May 2015:

Georgia College Physics Department (Campus Box 60, Milledgeville GA 31061)

- PHYS 1111L, PHYS 2211L, PHYS 1112L, and PHYS 2212L.
- Led labs between 12 and 36 people

Design Competitions

Mars City Design Competition 2018

- Research and analysis of concept for a self-sustaining Martian Colony
- One of 12 finalists after an initial 50 competitors

ESA Space Exploration Masters 2018

- Creation and design of a business model for a lunar greenhouse
- One of 10 finalists from 132 submissions

SKILLS

- Experience with Python, Matlab, LabVIEW, Unity, Xcode, JMP, and C#, ITAR
- Experience in board game mechanical and graphical design