

VIKRAM BELTHUR

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EDUCATION:

University of Illinois Urbana Champaign

Aug. 2018 - May 2022

BS Electrical Engineering - GPA: 3.41/4.00

Selected Coursework: CS 225 (Data Structures and Algorithms), ECE 220 (Computer Systems and Programming), ECE 342 (Electronic Circuits), ECE 310 (Digital Signal Processing)

PROJECTS:

Graph Algorithms with OpenFlights

Nov. 2020 - Dec. 2020

- Created a graph in C++ based on airport and route data from openflights.org.
- Performed a Depth First Search (DFS) traversal on the Airport Graph.
- Calculated the shortest path between any two airports using Dijkstra's Algorithm, and a landmark path between any three airports using the shortest path.

Rocket Avionics (For NASA Student Launch Competition)

Sept. 2019 - Mar. 2020

- Developed a long range RF communications link to remotely deploy payload.
 - Built an altimeter based parachute deployment system.
 - Programmed mission critical code for Arduinos for use in the deployment system
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ORGANIZATIONS:

Illinois Space Society (ISS)

Sept. 2019 - Present

Institute of Electrical and Electronics Engineers (IEEE)

Aug. 2019 - Present

- Member of IEEE Computer Society
 - Member of IEEE Aerospace and Electronic Systems Society
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SKILLS:

Programming Languages: C++, Python, C, MATLAB, Assembly

Software: KiCad, LTSpice

Tools/Competencies: Arduino, Git/Github, Linux, Raspberry Pi, HTML, CSS

CERTIFICATES:

Object Oriented Data Structures in C++ (University of Illinois - Coursera)

Issued June 2020