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 310 (Digital Signal Processing), ECE 220 (Computer Systems and Programming), ECE 342 (Electronic Circuits)

WORK EXPERIENCE

High School Math Tutor *July. 2020 - Present*

- Tutored high school students in AP Physics and AP Calculus.
- Counseled high school students for admission to engineering majors and provided guidance and review of college essays.

PROJECTS

Graph Algorithms with OpenFlights *Nov. 2020 - Dec. 2020*

- Created a weighted, directed graph in C++ with airport data from openflights.org.
- Performed a Depth First Search (DFS) traversal on the Airport Graph.
- Implemented Dijkstra's Algorithm to calculate the shortest path between any two airports, and a landmark path between any three airports.

Rocket Avionics *Sept. 2019 - Mar. 2020*

- Built an altimeter based parachute deployment system for the rocket's descent.
- Programmed mission critical Arduino code for for use in the deployment system
- Developed a long range RF communications link to remotely eject the parachutes.

CLUBS/ORGANIZATIONS

Illinois Space Society (ISS) *Sept. 2019 - Present*

- Member of Avionics subteam for the NASA Student Launch Competition team.

Institute of Electrical and Electronics Engineers (IEEE) *Aug. 2019 - Present*

- Member of IEEE Computer Society, and 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*