Vikram Belthur

973-580-1604 | 5 Chandler Terrace, Rockaway, NJ | US Citizen

www.vikrambelthur.com/Me | vikram.belthur@gmail.com | https://github.com/VikBelt

EDUCATION

University of Illinois at Urbana-Champaign   Champaign, IL

BS Electrical Engineering   Aug. 2018 - May 2022

GPA: 3.41/4.00

Selected Coursework: Data Structures and Algorithms, Digital Signal Processing, Computer Systems and Programming, Electronic Circuits

WORK EXPERIENCE

High School Math Tutor   July 2020 - Dec. 2020
- Tutored high school students in AP Physics and AP Calculus.
- Counseled students for admission to engineering majors, and reviewed college essays.

PROJECTS

Graph Algorithms with OpenFlights   Nov. 2020 - Dec. 2020
- Built a weighted, directed graph in C++ with airport and route data from openflights.org.
- Implemented DFS traversal; calculated the shortest path between two airports using Dijkstra's Algorithm.
- Created a Doxygen to produce detailed documentation for the entire project.

Rocket Avionics   Sept. 2019 - Mar. 2020
- Built an altimeter based parachute deployment system for a rocket's descent.
- Developed a long range RF communications link to remotely eject the parachutes.
- Programmed mission critical Arduino code for for use in the deployment system

CLUBS & ORGANIZATIONS

Illinois Space Society (ISS) - Student Launch Team   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, and Aerospace and Electronic Systems Societies.

SKILLS

Programming Languages: C++, C, Python, MATLAB, Java, Assembly
Competencies: LTSpice, Github, Raspberry Pi GPIO Programming, Linux, Arduino Programming, CAD in Fusion 360, PCB Design with KiCAD, HTML, CSS
Certificate: Object Oriented Data Structures in C++ (Coursera - June 2020)