Prava Dhulipalla

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EDUCATION

FRANKLIN W. OLIN COLLEGE OF ENGINEERING
Bachelor of Science in Electrical and Computer Engineering
2016 - 2020 | Needham, MA
GPA: 3.94
Activities and Societies: Student Government, Society of Women Engineers, Honor Board, IgniteCS, Olin Autonomous Boat Project Team Lead

COURSEWORK

Modelling and Simulation
Quantitative Engineering Analysis I, II
Software Design
Principles of Engineering
Computer Architecture
Data Science
Data Structures and Algorithms
Computer Networks
Foundations of Computer Science
Discrete Mathematics
Databases
Technology, Accessibility, and Design
Software Systems
Nonlinear Programming
Convex Optimization
Advanced Algorithms

SKILLS

Coding Java • Python • C++
C • OCaml • ROS • Verilog • R
Matlab • Wolfram Mathematica
Computer Arduino • Raspberry Pi
Linux • Ubuntu • Android • iOS • Git

PROJECTS

Clew App | 2019
Worked with Professor Paul Ruvolo to iterate upon an indoor navigation iOS app for people who are blind or visually-impaired

Robotic Gripper | 2017
Worked on an integrated team of students studying mechanical, software, and electrical engineering to build a robotic gripper

TECHNICAL EXPERIENCE

SONOS | Project Manager and Technical Member
August 2019 - August 2020 | Needham, MA
- Worked with a team of five Olin students and a variety of company engineers to optimize the Sonos product manufacturing test process
- Utilized a variety of data science and machine learning tools
- Served as both a project manager role in the project and a technical member, contributing to the actual outcome of the project
- Project culminated in the design and implementation of a software pipeline to provide test optimization insights

AMAZON ROBOTICS | Software Development Engineer Intern
May 2019 - August 2019 | North Reading, MA
- Worked on the Robotic Movement Control and Coordination team, responsible for the allocation and usage of fulfillment center robots
- Developed a feature to allow for specialized robotic movement for the purpose of fulfillment center space and time optimization
- Performed the role of both a feature designer and developer to ensure success in both emulated and simulated platforms

VISIBLE LIGHT COMMUNICATIONS LAB | Student Researcher
May 2018 - August 2018 | (Olin College) Needham, MA
- Worked on a hybrid RF-visible light communications system under the guidance of Professor Siddhartan Govindasamy
- Research culminated in a research paper presented at the International Conference on Computer, Information, and Telecommunication Systems
- Worked on a variety of algorithms to further functionality of the hybrid system, which required knowledge of communication theory and signal processing

OTHER EXPERIENCE

EDUCATOR ROLES | Student Instructor and Teaching Assistant
Fall 2017 - Spring 2020 | (Olin College) Needham, MA
- Served as a teaching assistant for a variety of classes, including Introduction to Sensors, Instrumentation, and Measurement (introductory circuits class), Quantitative Engineering Analysis I and II (project-based course focused on multivariable calculus, linear algebra, mechanics, signals and systems, and dynamics), and Machine Learning
- Served as an instructor for a student-led class in Data Structures in Algorithms taught in Spring 2019
- Served as a curriculum developer and instructor for an Advanced Algorithms course taught in Spring 2020

RESEARCH AT OLIN COLLEGE | Student Researcher
Fall 2016 - Spring 2020 | Needham, MA
- Worked in the student robotics lab on a variety of semester projects, including underwater autonomous submersibles, autonomous robotics to traverse areas near volcanoes, and a multi-sensory robotic arm project
- Worked with Professor Samantha Michalka on brain-computer interface research, primarily revolving signal processing and machine learning