Pranav Sankar Srinivasan

pranavsankars@g.ucla.edu | linkedin.com/in/pranavsankars | github.com/pranavs2001 | (805) 624-4604 | Simi Valley, CA

EDUCATION

University of California, Los Angeles (UCLA), *B.S. Computer Engineering* *Expected Graduation: June 2023*

- **GPA:** 3.84
- **Honors:** Fast Track Honors Program, Dean's Honor List
- **Relevant Coursework:** Introduction to Computer Science II: Data Structures and Algorithms, Introduction to Computer Science I, Computer Architecture, Logic Design of Digital Systems, Introduction to Engineering Design: Internet of Things

TECHNICAL SKILLS

Programming Languages: C++, Swift, Python, C, HTML, CSS, JavaScript, Verilog

Tools and Technologies: Firebase, UIKit, SwiftUI, CocoaPods, Git, Flask, EagleCAD, Adobe Softwares

EXPERIENCE

Robotics and Mechanisms Laboratory (RoMeLa), *Undergraduate Researcher* *October 2019 - Present*

- Developing website using HTML, CSS, and Python to interface with an autonomous cooking robot
- Using the Flask web server library to host the website locally on the Raspberry Pi that is controlling the robot
- Implemented serial communication capability in Python between Raspberry Pi and Arduino to monitor sensor data
- Designed a PCB using EagleCAD to enable robot-to-appliance communication

Laboratory for Embedded Machines and Ubiquitous Robots (LEMUR), *Undergraduate Researcher* *June 2020 - Present*

- Member of FORAY project: developing a fleet of blimps that can play a game of aerial soccer
- Aggregated information on pros and cons of implementing different forms of computer vision
- Investigated how to implement an efficient mesh network communication with Xbee modules with given constraints
- Personal Page: uclalemur.com/people/pranav-sankar-srinivasan

JPL "Open Source Rover" Project, *Beta Tester* *January 2018 - December 2018*

- Worked alongside a JPL engineer to successfully beta test a scaled-down model of the Curiosity rover
- Integrated peripherals, resolved design flaws, and worked one-on-one with engineer while building rover
- Presented prototype at local science fairs to stir interest in engineering amongst the next generation
- Project Website: opensourcerover.jpl.nasa.gov/#!/home

PROJECTS

Creative Labs x ACM Bloom, *Web Development Fellow* *October 2020 - Present*

- Learning how to make a website using HTML, CSS, and Javascript
- Working to create a website from scratch as the final project

Bruin Dining, *Founder and Sole Developer* *July 2020 - Present*

- Creating a user-friendly iOS mobile app that displays the UCLA Housing Dining Hall menu
- Leveraging Swift, UIKit, Storyboards, and Cocoapod dependencies to design and develop an app with an intuitive interface
- Fetching and parsing JSON files with UCLA Dining Hall menu API to access relevant information

IDEA Hacks, *Project Member* *January 2020 - January 2020*

- Ideated and prototyped an IoT smart shower timer in 36 hours to raise awareness of water consumption in college dorms
- Integrated Bluetooth functionality by writing code in C to allow for devices to join the IoT ecosystem
- Runner-up for the "Sustainability Award" amongst 60 participating teams

IEEE MicroMouse, *Project Member* *October 2019 - June 2020*

- Worked with teammates to create a "mouse" robot that used a Flood Fill algorithm to self-navigate through a maze
- Implemented PID functionality in C to incorporate autonomous capability for mouse and created PCB with EagleCAD

LEADERSHIP

UCLA IEEE, *Corporate Relations Officer* *April 2020 - Present*

- Leading Corporate Committee to secure IDEA Hacks sponsorships by emailing and conversing with company representatives
- Scheduling and hosting industry events such as talks, info sessions, and technical workshops
- Enabling technical growth and providing networking opportunities for members

Other Skills and Interests: Playing Piano/Trumpet/Flute, Basketball, Photography, Traveling