

# Suvrat Jain

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## Education

University of Central Florida, Orlando, FL

December 2019

Major: Bachelor of Science in Computer Engineering

GPA: 3.7

Minor: Intelligent Robotic Systems

## Skills

Programming	Software Platforms	Hardware Platforms	Spoken Languages	Other
C/C++	FreeRTOS	STM32	English	Linux
Java	OpenCV	Jetson Nano	Hindi	Data Structures
Python	GitHub	Arduino	Punjabi	Algorithms
C#	Unity	RaspberryPi	Spanish (Basic)	I2C/UART/SPI
Go	DipTrace/Eagle	MSP430		Sensors/Actuators

## Professional Experience

Birket Engineering, Inc.

Winter Garden, FL

*Embedded Systems Intern*

May 2019 – Present

- Program 32-bit ARM Cortex-M microcontrollers such as STM32F7 in C for R&D and business applications
- Design Electrical Schematics and Printed Circuit Boards using DipTrace design tool
- Apply Data Structures and Algorithms to bytes obtained via UART, SPI, and I2C communication protocols
- Perform scientific experiments to prove concepts for filing utility and design patents

Universal Parks and Resorts

Orlando, FL

*Engineering Intern (Universal Creative Division)*

August 2018 – December 2018

- Implemented autonomous indoor navigation system for drones by reengineering the onboard computer
- Made test plans for R&D purposes and documented the merits and limitations of the technology
- Developed and maintained vendor relations throughout the project development cycle
- Presented the project to senior executives at Universal Creative and discussed its business potential

PraxSoft Inc.

Orlando, FL

*Assistant Engineer*

May 2017 – November 2018

- Worked with wireless sensors and embedded controllers for commercial and R&D applications
- Tested and Troubleshoot sensors and PCBs using analysis tools such as Terminal and Electrical Schematics
- Conducted data analysis and generated technical reports that were turned in to FDOT
- Maintained strong customer relations by providing quick feedback and assistance when required

## Projects

Robot Basketball Arcade – *Firmware and PCB Design Engineer*

May 2019 – Present

- Programming Bluetooth Low Energy (BLE v4.2) for Robot – Arena wireless communication
- Configuring OpenCV on Jetson Nano for localization and interfacing it with the Robot for locomotion
- Designing the PCB for the Robot and determining power requirements for the entire electrical system

Other Projects

- Available on my online portfolio: <http://suvratjain.com/projects.html>