

# Suvrat Jain

• Kissimmee, FL 34741 • suvratjain101@gmail.com • (407) 724-7571 •

Portfolio: <http://suvratjain.com>

## Education

University of Central Florida, Orlando, FL

December 2019

Major: Bachelor of Science in Computer Engineering

GPA: 3.7

Minor: Intelligent Robotic Systems

- Relevant Coursework: Computer Science II, Electronics II, Embedded Systems, Networking, AI for Games

## Skills

Programming Languages	Software Experience	Hardware Experience	Spoken Languages	Other
Java	FreeRTOS	STM32F7	English	Data Structures
C/C++	Git	Jetson Nano	Hindi	Algorithms
Python	Unity	ATmega328p	Punjabi	Oscilloscope
C#	DipTrace/Eagle	MSP430G2553	Spanish (Basic)	Linux
Go	Multisim/LTSpice	RaspberryPi3		

## Professional Experience

Birket Engineering, Inc. (Winter Garden, FL) – *Embedded Systems Intern*

May 2019 – Present

- Program 32-bit ARM based 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 Creative (Orlando, FL) – *Engineering Intern*

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 the Arena-Robot communication interface using Bluetooth Low Energy (BLE) v4.2
- Designing the PCB for the Robot and determining power requirements for the entire electrical system
- Using Computer Vision on Jetson Nano for localization and interfacing with the Robot for locomotion
- Programming lighting choreography in the Arena using NeoPixels and Arduino Nano for aesthetics

Other Projects

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