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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

# 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 Troubleshot 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>