Chinmay Shukla

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**Computer Engineer**

A graduate student pursuing Computer Engineering at San Jose State University. Looking for an avenue for an internship to gain professional experience in my areas of interest. Have adequate knowledge in:

• Digital Signal processing • Embedded Linux

• Embedded systems programming in C • Scrum

**Education \_**

**Master of Science – Computer Engineering**  **Aug 2020 - Present**

San Jose State University

**Bachelor of Technology – Electronics and communication (GPA – 7.04/10) Jul 2016 - May 2020**

Charotar University of Science and Technology(NAAC accredited A)

**Technical skills \_**

**Programming Languages:** Python, C/C++, Java, ARM Assembly Language, MIPS Assembly language **Tools:** git, MATLAB, MS Office, Arduino, Raspberry pi, Jetson Nano, Node mcu and esp 32 **Operating Systems:** Linux (Ubuntu), Windows **Embedded Programming Tools:** Arduino, AVR Studio

**Professional experience .**

**Matrix Comsec in RMA department:** **May 2019 - Jul 2019**

* Gained industrial exposure
* Analyzed their products of security and telecommunication product
* Became familiar with the product testing protocols for the company

**Technical Experience \_**

**Starbucks (Class project): Fall 2021**

* Learned and quickly ramped up with Java object-oriented language and object-oriented concepts.
* Cleared 99% of unknown test cases set by instructor.
* Fixed different types of code smells and bugs in the stater code.
* Implemented various design patterns for different sections of Starbucks code.

**Bad Chess(Team project): Fall 2021**

* Followed Agile and scrum software development framework.
* Implemented various design patterns in green foot’s chess code in Java.
* Implemented various strategy like castling, en passant and randomized the movement of chess pieces by encapsulation.
* Instructor awarded two awards. (Agile and Architecture)

**Industrial IoT wireless system using IEEE protocols(Team project): Fall 2021**

* Built the whole system from three components: Host system, Embedded system and Prototype board.
* Followed the IEEE 802.11x protocol.
* Implemented a Linear Invariable Synchronous Algorithm (LISA) in C++ using GPIO pin and ASK wireless modules.
* Interfaces a Long-Range wireless module with the Embedded system Nvidia jetson nano in python.

**Obstacle Avoiding Robot using Arduino: Spring 2017**

* Mechanics of a moving robot
* Significance of PWD in analog sensors
* Understood the interfacing of sensors with Arduino

**Biometric time and attendance system using Arduino: Summer 2018**

* Interfaced multiple devices using limited number of pins using i2c protocol.
* Interfaced and programmed EEPROM and fingerprint sensor with Arduino.

**Smart home solutions using esp32 and node MCU: Fall 2018**

* Understood basics of IoT
* Created a cloud site on a hosting platform

**Real time vehicle Identification system on raspberry pi: Spring 2019**

* Implemented tesseract module and understood the working of image processing
* Implemented database of MySQL in python.
* Worked with raspberry pi and OS Raspbian

**Courses .**

**Undergraduate:** embedded hardware design, sensor networks, image processing**,** VLSI, data structures and algorithms, embedded systems programming, real time embedded systems