

Naeem A. Mannan

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Objective

To get a full time position working with firmware engineering.

EDUCATION:

San Jose State University, Electrical Engineering Graduating May 2019, GPA: 3.502

MAJOR CLASSES

- Microwave engineering, EE 172
- System controls with C, RTOS included, EE138
- Mechatronics, EE106
- Digital design with FPGAs, EE178

SKILLS

Programming: C++, Python, Java , basic MatLab, basic Verilog, and basic RTOS

CAD software including *Creo Parametric* and *Solidwork*

WORK EXPERIENCE

San Jose State University- San Jose, CA

Fall 2016 – Spring 2019

- **Math_Workshop_Facilitator** – lead teaching sessions for students taking Calculus 2 and Differential equations
- **Electronics lab ISA** - worked with students teaching them how to use various lab equipment and components.
- **High School mentor** – helping kids build projects such as hover crafts and EM fields for pest control.

Camp TechKnowHow- Redwood City, CA

Summer 2015/2016

Projects

EE 138, *Embedded Control System Design*

Fall 2017

- Use of C++ in *Atmel studios* to program a *SAMD20* development board with a PCB. This included using *state machines*, flow charts, and dedication to finish the lab *like a fast pace and changing work environment*.
- Learnt *RTOS* using FreeRTOS V.8.0.1 on Atmel studios. Learned about using Semaphores, kernals, and memory allocation. Used to make a *PID motor control* based on user input, PID functions for speed and position, and EIC.

Projects at SJSU

- Senior design project: *group* project building drone security for masking ground control position, mainly for defense and military personal. RF engineering and systems control engineering
- EE106, Intro to mechatronics-2018: *Group project*, designed, simulated, and built a mechatronic dog door from scratch. as an interdisciplinary project with mechanical engineers. *Also wrote code snippets for the microcontroller.*
- Robotics club: *Group project*, worked with interdisciplinary of engineers to build a robot. My duties include working on an interface for the motor to power supply by making a PCB. Included working in teams, divisions, and sub-divisions for different parts of the robot with updates bi-weekly.

Other projects

- Worked on phone case using AutoCAD to look like Pipboy 3000 from Fallout game during winter break, 2015.
- Eagle scout from BSA, designed and built a bulletin board of wood. This included using a mentor to guide me with designs and methods of building this.
- FPGA design final project to make a singing robot with C++ and system Verilog, Using group to design different parts such as SDK for me, and block diagrams from my teammates in system Verilog.

Professional Affiliations:

- Student Member *Society of Women Engineer*, IEEE and ASME treasurer.

Other interests

SJSU Rugby team (8/2015-5/2016)

SJSU Dean's scholarship award 2016 and 2017

SJSU Comedy club for public speaking and oral communication soft skills

3D printing:

- Interest in 3D printing and bought a 3D printer to experiment, learn, and build models in different materials.