Naeem A. Mannan

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OBJECTIVE: Seeking a full time position developing software for a major company that I hope to grow with.

SUMMARY:

- 2 years of experience in various languages and AutoCAD design and RTOS
- Projects using Python to automate process such as datasheet writing and to run a list of scripts
- Self starting individual, started many projects like my website to learn

WORK EXPERIENCE

Western Digital *July 2020 - Present *

- Worked in Memory health test engineer, iNAND product engineer, and Apple product engineer. Worked on software in python and C to make sure products designed by Western Digital were working.

Unlocked Reality February 2019 - Present

- A new start up focusing on VR accessories emerse user in VR gaming. Main role was designing hardware and writing some software to interface with the hardware. This includes going to weekly meetings and talking with my CEO on a bi-weekly basis, as well as communicating close with other disciplines to finish a prototype.

Electrical engineer, QA engineer Globalfoundries *October 2019 - February 2020*

- Worked on Python scripting to automate the placement of designs in Virtuoso

PROJECTS

Pressure mat, Unlocked Reality

- Designed a flexible PCB pressure mat and circuit into 4 iterations. Circuits, PCBs, and new components were designed and made with DipTrace. They were then discussed and revisited when necessary to make improvements. The code was done on Arduino but the company is slowly moving towards more sophisticated microcontrollers.

project SALAM (Script Automation Like A Machine), Western Digital

- A project named after an engineer, project SALAM is about running multiple scripts in the iNAND environment and record their outputs onto a text file for other engineers to analyze. This was written all in Python and featured automation in running the scripts and controlling a remote computer from the script.

Automated script project, Global Foundries

- Used SKILL code to place the components and made Python classes to accommodate new top level layout designs when needed. Also build an automated program to derive truth tables from variables given in a text file as well as check pin consistency between verilog files to lib and lef files.

Intro project, Western Digital

- Worked on testing the output of Silicon on a PCB. This was done in C in atmel studios using an AVL board to communicate with the products. By using, and introducing my mentor, to modular scripts it was easier to set up sensors like an ADC.

EXTRACURRICULAR ACTIVITIES

WD Milpitas Board group March 2021 - Present

- Started a social group for the people at the Western Digital Milpitas office. The intention was to have people of like minds and passions to come together and play board games as a de-stressing method. The group was successfully used when two members met up to play chess and got to network.

Robotics club, hardware engineer *August 2018 - May 2019*

- Worked with an interdisciplinary group of engineers to build a robot. My duties include working on interfacing a motor to a power supply by making a PCB with MOSFET switching.I also had to wire the PCB to the motor controllers in braids with wires. Included working in teams, divisions, and sub-divisions for different parts of the robot with regular updates using Trello and Slack.

EDUCATION:

- San Jose State University, San Jose, CA Electrical Engineering undergraduate, graduated May 25, 2019
  - **GPA: 3.50**
- San Jose State University, San Jose, CA Software engineer graduate program, still in progress
  - GPA: N/A

SKILLS

Programming: C++, Python, MatLab, Cortex Assembly language, System Verilog, scons, SKILL, and Java Code
Languages: Spanish (intermediate), German (intermediate)

PERSONAL AFFILIATIONS:

- Student Member of SJSU all comedy club, SJSU robotics, IEEE, and ASME treasurer.
- US natural citizen
- *Tau Beta Pi member*