

Amir Modan

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IMMIGRATION STATUS

U.S Citizen

EDUCATION

San Francisco State University, San Francisco, California
Degree: B.S Computer Engineering / M.S Embedded Systems Blend
GPA: 3.93

August 2018 - Present

EXPERIENCE

- Research Assistant at SFSU, “Next-Generation Neural-Machine Interfaces for Electromyography”, Developed and Tested *MyoHMI*, an Android-based Neural-Machine Interface capable of recognizing a user’s physical intent from surface EMG signals, useful for medical applications such as Stroke Rehabilitation and Amputees.
January 2021 - Present
- Information Systems Intern for SL Corporation, Assisted in the maintenance, operation, backup and disaster recovery procedures for servers and personal computers.
June 2017 - August 2017

PROJECTS

- Designed an Audio Amplifier on a PCB using LT-SPICE and Eagleware tools.
- Assembled an MCU-Based Security System to detect theft and report status to the user via an online server using C and Python to program a Tiva-TM4C and Raspberry Pi, respectively.
- Fabricated an ASIC capable of performing video compression using motion estimation, designed at the RTL level using Verilog HDL.
- Developed a Desktop-Based Neural-Machine Interface in Python similar to *MyoHMI* using Deep Learning Convolutional Neural Networks as the Classifier, Tensorflow used as a library.
- Wrote a Python program to recognize handwritten digits, first using Tensorflow, then from scratch.
- Designed the layout for a 32x16 SRAM IC at the transistor level using Synopsys Custom Compiler.

SKILLS

- Advanced knowledge of Java, C++, Python, and Matlab.
- Knowledgeable in Deep Learning Technology and its applications in image and gesture recognition.
- Experienced in programming ARM-Based Micro-Controllers using C and/or Python.
- Capable of programming FPGA’s and ASIC’s using Verilog HDL.
- Adept in designing Digital IC’s from the Transistor Level using Synopsys Tools.