YU CHU

angelyuchu@gmail.com 805-280-8457 https://angelyuchu02.github.io

EDUCATION

Carnegie Mellon University Pittsburgh, PA
Master of Science in Electrical and Computer Engineering May 2023
University of California, Santa Barbara Santa Barbara, CA
Bachelor of Science in Electrical Engineering June 2021
UCSB Technology Management Program Certificate

EXPERIENCE

Google Sunnyvale, CA
Data Center Engineer Intern May 2022-August 2022

- Performed data analysis on the datacenter loads at the low voltage bus level upon its distribution and utilization with SQL and Colab
- Created an online simulator for testing and review interaction between SSS SWGR and RMU loops
  - Translated the relay logic diagram of Google Data Center next generation electrical system architecture from Siemens relay settings files (DIGSI) into a PLC program (CoDeSys)
  - Verified the logic by running in simulation mode in different scenarios and built a GUI for single line diagram to run in actual PLC environment

Luxshare Precision Industry Co. Ltd. San Diego, CA
AI Research and Development Intern June 2021-September 2021

- Conveyed a VR/AR smart glasses market investigation report
- Examined the value in smart glasses product category for Luxshare-ICT management team decision-making process

Human Machine Interaction Lab, Tsinghua University Beijing, China
Mechanical Engineering Intern June 2017-September 2017

- Optimized the hardware of haptics and force feedback gloves with SolidWorks, AutoCAD, Adams, and 3D printing
- Generated test procedures to assess the constraint space performance of glove for proper functionality

ACADEMIC PROJECTS

Carnegie Mellon University Pittsburgh, PA
Project Manager of the Consulting Project for Dollar Bank January 2023-May 2023

- Collaborated with the Digital Management Team of Dollar Bank to deliver solutions of bringing the reliability and soundness to digital banking services referring to European Fintech
- Researched and provided cost-effective strategies that improve the client's business processes in retail

University of California, Santa Barbara Santa Barbara, CA
Senior Year Capstone Project with ASML August 2020-June 2021

- Designed and optimized the optical transmission model with computer vision algorithm to deliver accurate measurements of target metrics
- Improved thresholding and shape fitting techniques to measure shadow contrasts and estimate distribution of density
- Introduced additional metrics providing more extensive description of tin-target shape and morphology

Optimization Research Project- Optimization of Restaurant Customer Rating Model January 2020-March 2020

- Developed the algorithm to classify restaurants into multiple rating levels based on the weight of characteristics, each customer's ratings and correlations by logistic regression and gradient descent algorithm

SKILLS: Software: Adams, Arduino, AutoCAD, Blender, CoDeSys, COMSOL, DIGSI, Excel, FPGA, Fritzing, LightSide, LTspice, SolidWorks, Unity, Verilog, Weka

Programming Languages: C/C++, HTML, JavaScript, Python (PyTorch, TensorFlow), MATLAB