YU CHU

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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 LLC   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

Beijing Sensing Technology Ltd   Beijing, China
Machine Learning Intern   June 2018-August 2018
- Applied CNN to MNIST handwritten digit and DeepFashion clothes datasets for image classification
- Implemented the training neural network process with Pytorch, including dataset preprocessing, model architecture, object function, optimization method, and evaluation metrics

Human Machine Interaction Lab, Beihang 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

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, Verilog, Weka

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