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EDUCATION

UC San Diego (BS/MS Program)

M.S Candidate in Intelligent Systems, Robotics & Controls — *Expected: Jun 2023 — La Jolla, CA*

B.S in Electrical Engineering — Machine Learning & Controls — *Graduated: Jun 2021 — La Jolla, CA*

EXPERIENCE

Application Technology Limited — Jun 2021 to Current

AI Specialist Trainee

- Quantized and converted Tensorflow models into TFlite models for deployment in edge TPU cameras. Implemented deep sort tracking and fall detection YOLO models into a NVIDIA Jetson Xavier. Used YOLOv5 to detect wild boars. Used transfer learning with PyTorch to train a face detection model and parallelized a mask classification model with multiprocessing. Created functionalities and built production ready web pages for displaying RTSP camera streams with React running on an edge TPU. Currently working on a carried object detection and multi-object tracking model.

Risksis Technology Limited — Mar 2021 to Jun 2021

AI and Web Engineer

- Performed OCR and Evaluated the performance of NLP models such as BERT and XLM-RoBERTa on paragraphs within PDFs. Worked on a full stack web project using Vue.js and ASP.NET backend with MongoDB. Annotations for deep learning.

ASTRI - Science Park, Hong Kong — Jun 2019 to Sept 2019

Software Engineer Intern

- Developed an augmented reality UWP application for the Microsoft HoloLens with Unity (C#) and ROS which allows the user to spawn objects via gestures at the location of AR tags. Utilized WebSocket protocol for communication between ROS and HoloLens.

PROJECTS

Cryptotrackerr.tk

Created and hosted a website that allows users to track cryptocurrencies. Used MERN stack and hosted the website on an AWS EC2 instance.

Polar Coffee

Developed IoT features using a Raspberry Pi for a Smart Iced Coffee Machine. Created a website with Django that tracks user data and allows remote control of the machine through REST API and MQTT protocol.

Folded Cascode OTA Amplifier Design

Completed a project of designing and biasing an amplifier to meet a range of specifications including gain, power dissipation, bandwidth and device sizing.

SKILLS

Programming:	**Python**, **Java**, C++, C#, LabVIEW
Modeling and Analysis:	Autodesk EAGLE, LTspice, Cadence Virtuoso, Unity, SolidWorks
Web Development:	**Javascript**, React, Vue, Node, HTML, CSS, MongoDB, MySQL
Software & Tools:	**Linux**, **Docker**, ROS, LaTeX, Git, Docker, PyTorch, TensorFlow, OpenCV
Microcontrollers:	Arduino, NVIDIA Jetson (Nano, TX2, Xavier), Raspberry Pi, BASYS Board