MINGZE PAN

https://pmmmz.github.io/pmz/

657-319-5899 | mingzepan@csu.fullerton.edu

EDUCATION

California State University, Fullerton   *Aug 2020 - present*
Computer Engineering M.S. GPA:3.7/4.0   *Fullerton, CA*

California State University, Fullerton   *Aug 2019 - May 2020*
Electronic Engineering Exchange Program   *Fullerton, CA*

Tianjin Normal University   *Sep 2016 - Jun 2019*
Communication Engineering B.S.   *Tianjin*

PUBLICATIONS

- Mingshuo Liu, Kevin Han, Shiyi Luo, Mingze Pan, Mousam Hossain, Bo Yuan, Ronald F. DeMara, Yu Bai: **An Efficient Video Prediction Recurrent Network using Focal Loss and Decomposed Tensor Train for Imbalance Dataset**, GLSVLSI '21, June , 2021

AWARDS

IEEE Student Engineering Team Challenge 2021   Second Place
Project: Self-Navigating Drone   *Aug 2021*

PROFESSIONAL EXPERIENCE

California State University, Fullerton   Computer Engineering Department
Graduate Student Research Assistant   *Aug 2020 - present*
Advisor: Dr. Yu Bai

- **Project1:** Developing a pre-processing module into the YOLOv5 model to optimize the data set for object detection, which reduces the waste of calculation

- **Project2:** Embedding an AI recognition system for the robotic arm for classification and capture by self-learning

- **Project3:** Implementing edge smart computing with GPS system for drone to autonomous complete extensive analysis of GPS coordinates and adaptive pathfinding

Tianjin Normal University   Communication Engineering Department

National College Innovation and Entrepreneurship Project   *Dec 2017 - Jun 2019*
Designed an Anti-blocking smoke alarm system for student dormitories in the university.

WORK EXPERIENCE

California State University, Fullerton   Computer Engineering Department
Graduate Student Research Assistant   *Nov 2020 - present*
Instructional Student Assistant   *Sep 2020 - present*

TECHNICAL AND LANGUAGE SKILLS

Programming Language	Python, MATLAB, C, C++, Verilog, VHDL
Software	Visual Studio, Xilinx Vivado, HSPICE, MATLAB,
Operating System	Linux
Deep Learning	Python - Keras, TensorFlow, Pytorch