# MINGZE PAN

657-319-5899 | mingzepan@csu.fullerton.edu
https://pmmmz.github.io/mingze_p.github.io/

## 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:** Inserting a pre-processing module into the YOLOv5 model to optimize the data set for object detection, which reduces the waste of calculation
- **Project2:** Designing an AI recognition system for the robotic arm for classification and capture
- **Project3:** Implementing edge smart computing with GPS system for drone to fully 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

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|---|---|
| **Programming Language** | Python, MATLAB, C, C++, Verilog |
| **Software** | Visual Studio, Solidworks, 3DS MAX, MATLAB, |
| **Operating System** | Linux |
| **Deep Learning** | Python - Keras, TensorFlow, Pytorch |