

# MINGZE PAN

<https://pmmmz.github.io/pmz/>  
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## EDUCATION

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<b>California State University, Fullerton</b> Computer Engineering M.S. GPA:3.7/4.0	<i>Aug 2020 - present</i> <i>Fullerton, CA</i>
<b>California State University, Fullerton</b> Electronic Engineering Exchange Program	<i>Aug 2019 - May 2020</i> <i>Fullerton, CA</i>
<b>Tianjin Normal University</b> Communication Engineering B.S.	<i>Sep 2016 - Jun 2019</i> <i>Tianjin</i>

## PUBLICATIONS

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- 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

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<b>IEEE Student Engineering Team Challenge 2021</b> Project: Self-Navigating Drone	Second Place <i>Aug 2021</i>
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## PROFESSIONAL EXPERIENCE

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

<b>Tianjin Normal University</b> <b>National College Innovation and Entrepreneurship Project</b> Designed an Anti-blocking smoke alarm system for student dormitories in the university.	Communication Engineering Department <i>Dec 2017 - Jun 2019</i>
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## WORK EXPERIENCE

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<b>California State University, Fullerton</b> Graduate Student Research Assistant Instructional Student Assistant	Computer Engineering Department <i>Nov 2020 - present</i> <i>Sep 2020 - present</i>
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## TECHNICAL AND LANGUAGE SKILLS

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