DAVID PAZ

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3533 Island Ave. Apt. A ⋄ San Diego, CA 92102

EDUCATION

University of California, San Diego

Computer Enginering, B.S. *June 2018*

Intelligent Systems, Robotics, and Control, M.S. *June 2020*

Member of Eta Kappa Nu, and IEEE

Related Courses: Introduction to Autonomous Vehicle Technology, Introduction to Robotics, Computer Vision, Advanced Data Structures, Pattern Recognition and Machine Learning, Operating Systems, Computer Architecture, and Software Engineering

Major GPA: 3.5

San Diego Mesa College *May 2015*

A.A.S, Physics.

Major GPA: 3.87

EXPERIENCE

Contextual Robotics Institute, UC San Diego October 2017 - Present

Autonomous Vehicle Laboratory Research Assistant *San Diego, CA*

· Assisting on the simulation, localization, planning, control, and deployment aspects of autonomous mail delivery vehicles at UC San Diego–supervised by Dr. H. I. Christensen.

· For more details, please visit my personal website.

TuSimple July 2018-Present

UC San Diego Verification Partner *San Diego, CA*

· Developing a system in order to assess the performance of Level 4 autonomous trucks.

Computation Structures Group, MIT CSAIL June 2017 - September 2017

Convolution Accelerators Researcher *Cambridge, MA*

· Developed flexible two-dimensional convolution accelerators ideal for IoT to provide significant performance gains over sequential computations and flexibility over application-specific accelerators such as Convolution Neural Networks–supervised by Dr. Arvind.

San Diego Supercomputer Center, UC San Diego December 2016 - July 2017

High Performance Computing Containerization Research Assistant *San Diego, CA*

· Developed software for the Comet supercomputer and explored the capabilities and limitations of Singularity containers in HPC–supervised by Dr. A. Majumdar.

· Association for Computing Machinery (ACM) publication

i-Trek, MIT August 2016 - August 2018

Lead Detection and Sensing Researcher *Cambridge, MA/ San Diego, CA*

· Worked on the development of a portable device to detect harmful agents in water.

· Publication in review, and project supervision by Dr. N. Farve. and Dr. K. Frazier

TECHNICAL SKILLS

Programming	Python, C++, C, Java, Matlab, Shell Scripting
Robotics	LiDAR Technology (SLAM), Planning, and Control
Machine Learning	Support Vector Machines, PCA, LDA, K-Means, EM
Software Tools	ROS, Git, Vim, GDB, Valgrind, Make, Docker, Singularity
Digital Design	Verilog: FSM Design using Xilinx, BlueSpec Verilog