EHSAN ZIAEIKAJBAF

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Undergraduate Electrical and Computer Engineer (Machine Learning) student in his senior year at University of California San Diego with a passion for learning science and math. Looking for a professional career in machine learning or PCB designing.
Expected Graduation: June 2020   Current GPA: 3.2

EDUCATION

University of California San Diego
Jacobs School of Engineering

📅 Aug 2017 – current   ⚲ San Diego, CA

- Major: Electrical and Computer Engineering
- Related coursework: Engineering Computation, Introduction to Digital Design, Introduction to Analog Design, Circuits and Systems, Components and Circuits Laborator, Linear Electronic Systems, Linear System Fundamental, Introduction to Active Circuit Design, Engineering Probability and Statistics, Advanced Digital Design Project, Introduction to Intelligent Systems: Robotics and Machine Intelligence, Introduction to Linear and Nonlinear Optimization with Applications, Eng Hands-on Group Project, Introduction to Autonomous Vehicles, Linear Control System Theory, Random Processes, LabVIEW Programming: Design and Applications, Programming for Data Analysis, Data Science in Practice

Sierra college
Mathematics and Science

📅 2014 – 2017   ⚲ Rocklin, CA

- Major: Physics and Mathematics
- Related coursework: Associates in Science for Mathematics

EXPERIENCE

Summer Research Internship
Electrical Engineer Intern/Undergraduate Research Assistant, UCSD Contextual Robotics Institute

📅 May 2018 – current   ⚲ San Diego, CA

- Collaborated with a post-doc using machine learning to create a smart camera which predicts new frames. Achieved certificate in using 3-D machine, laser cutter, and soldering circuit boards. Learned how to use SolidWorks to 3-D print, gained experience using machine learning for semantic segmentation.

  Mentors: Professor Todd Hylton and Dr. Michael Hazoglou

Tutor, Sierra College
Mathematics Department

📅 Jan 2016 – Aug 2017   ⚲ Rocklin, CA

- Provided walk-in tutoring to any students in mathematics, for all math levels. This includes math in other subjects such as physics, chemistry, economics, etc.

Computer Assistant, Sierra College
Writing Center

📅 Jan 2012 – March 2013   ⚲ Rocklin, CA

- Worked as a computer assistant for college work experience. Roles included fixing computers, helping with formatting research papers, logging into the system to request help, and computer or printer repairs.

Fry's Electronics
Computer Repair Department

📅 Oct 2011 – Dec 2012   ⚲ San Jose, CA

- Responsible for assembling computers and fixing software issues. Addressed and resolved all complaints and situations in a positive and timely manner. Communicated customer requests to management.

TECHNICAL AND SKILLS

- **Project in a Box:** *'Depth Mapping: A 3D physical representation of Real Time Video'*
  Currently part of a team using deep learning algorithm to detect and classify objects. Using map depth of an object, we are able to project the object into a 10X10X10 3D LED cube.
- **Programming Languages:** Proficient in: C, C++, Java, Python, MatLab, Arduino, LaTeX Also basic ability with: Assembly Language "ARM", Digital Design, Analog Design, LabVIEW.
- **Industry Software Skills:** SolidWorks (Advanced), Matlab (Advanced). Ansys (Intermediate), LTspice (Intermediate), most MS Office products including MS project and MS access (Advanced).
- **General Business Skills:** Strong technical, presentational, business, and interpersonal skills for working in a team and successfully completing a project.
- **Operating systems:** Linux, Mac OS X, Windows 7 & 10.
- **Languages:** English, Farsi, Arabic

HONORS & AWARDS

- Honors: Mathematics Program
- Member of Eta Kappa Nu Honors Society
- Member of Phi Theta Kappa Honors Society
- Member of IEEE
- Member of Project In a Box at UCSD
- President of Triton-AI at UCSD
- First place in Introduction to Electrical Engineering, for line-tracking robot car

REFERENCES

- Prof. Todd Hylton   Phone: 858-534-9195
- Prof. Behrouz Touri   Phone: 858-534-7044
- Dr. Michael Hazoglou   Phone: 347-210-0049