DIEGO PEREZ ROSAS

248-632-7132 | diego.perez.rosas2004@gmail.com | Rochester, MI

CAREER OBJECTIVE: MECHANICAL ENGINEERING

Aspiring Mechanical Engineer with a strong foundation in technical design and problem-solving. Passionate about developing impactful, innovative solutions and contributing to forward-thinking engineering teams.

EDUCATION

Bachelor of Science, Mechanical Engineering | Oakland University   **Expected Dec. 2027**

WORK EXPERIENCE

Teacher Assistant, Oakland University, Michigan   **Sept. 2025 - Present**
- Grade homework assignments ensuring consistency with instructor-provided rubrics and keys.
- Support instructors by recording grades and providing timely, organized results.
- Communicate with instructors and students, regarding homework grading and feedback.

Software Engineer Intern, MAVELS, Remote   **Sept. 2024 – Jan. 2025**
- Partnered with developers through pair programming to optimize SwiftUI codebases.
- Utilized Agile methods (Scrum & Kanban) to manage development tasks and translate client feedback into actionable user stories.

Web Developer, APE Connect, East Lansing, Mi   **May 2024 - Sept. 2024**
- Worked with the company's design & business team to implement vision into a full website.
- Implemented the front-end and back end, using HTML, CSS, & JS, as well as MongoDB.

LEADERSHIP & COMMUNITY INVOLVMENT

General Member, Formula SAE, Oakland University   **Sept. 2025 - Present**
- Apply SolidWorks skills and fluid mechanics principles to enhance system performance and quality. Aided with basic tasks and currently working with them.

CS & DS Director, MSU Quant Finance Club, Michigan State University   **Jan 2024 – March 2025**
- Implemented workshops that focused on covering fundamental tools and methods necessary for financial data analysis and modeling, such as MLM and Python libraries (e.g., NumPy, pandas) for students.

Safety Co-Captain, FIRST Robotics, Rochester High School   **Sept. 2018 - Jan 2021**
- Lead safety presentations and ensured team safety compliance. Contributed to award-winning presentations that advanced the team to regionals and the 2019 world competition.

PROJECTS

Image Detector
- Trained and deployed a custom YOLOv8 object detection model to detect apples in real time using a webcam.
- Dataset labeling and training were done in a Nexus project, then finalized locally with live inference and on-screen confidence feedback.

Resume Parser
- Primary objectives included working with a robust and scalable AI model for resume parsing & presented projected in front of judges at the end of the year competition for the MSU AI Club

SKILLS

Coding languages: Python, JS, HTML, CSS, C++ **| Software**: AutoCAD, SolidWorks, Microsoft Products

Other: Authorized to work for any US employer (no sponsorship required