**Matthew Kyle Hinojos**

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**EDUCATION**

**California State Polytechnic University, Pomona Graduation Date: Dec 2024**

Bachelor of Sciences (BS) in Electrical Engineering

**WORK EXPERIENCE**

**Glendora High School – Glendora Football,** Glendora, CA **August 2018 – November 2022**

*Head Freshman Coach*

* Led, taught and overlooked a group of 15-20 students at a time, teaching them the importance of hard work and teamwork
* Created daily practice plans for myself and the coaches working under me to follow
* Created weekly gameplans and scouting reports to prepare our coaches and players of our opponents
* Dealt with parents of players throughout seasons

**RoviSys,** Thousand Oaks, CA **May 2023 – August 2023, September 2024 – Present**

*Systems Engineer*

* Worked under the guidance of experienced engineers developing control systems utilizing the latest technologies
* Learned to work as a team on numerous complex time sensitive projects.
* Worked with deadlines and learned many industry standards.

**PROJECTS**

***Small Scale Traffic Controller***: Worked in a team to implement a series of timers and user inputs using a PIKit4 microcontroller, programed in C, to control small traffic lights and visual timers on an LCD screen

***Small Scale Baseball Scoreboard***: Lead a team of students to create a functioning scoreboard on an LCD screen using the PICKit4, using a series of buttons and switches as programmed interrupts in C the screen could indicate baserunners, outs, pitch count, score and inning

***Sensor Fusion***: Led a sub team in the development of a small autonomous vehicle, worked with ultrasound sensors and camera using object detection, worked with larger team to develop system to process data from all sensors so the vehicle could select the best path forward

**CREDENTIALS**

**Soft Skills:** Public speaking, Project management, Organize meetings, Teamwork, Communication, Time management, Problem solving, Critical thinking

**Technical Skills:** C++, C#, Python, Verilog HDL, Arduino, Circuit Design and Debugging, Electrical Drawing design, FPGA, MATLAB, Microchip, Microsoft Office, OrCAD PSpice, Oscilloscope, Simulink, Spectrum Analyzer, AutoCAD 3D and 2D design, Excel, Powerpoint, Microsoft Office