Rick Unite

Electrical Computer Engineering student eager to contribute and grow through internship roles

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EDUCATION

California State Polytechnic University, Pomona Aug '22 - (Expected) Jun '26

- **Major:** B.S Electrical Computer Engineering

- **Programming Coursework:** Object Oriented Programming, Digital Logic Design Verilog, Data Structures and Algorithms
- **ECE Coursework:** Electrical Circuit Analysis I & II, Microcontrollers, Microelectronic Circuits, Control Systems Engineering, Signals and Systems, Illumination Engineering

EMPLOYMENT

Computer Systems Administrator   MARATHON PETROLEUM COMPANY Oct '23 – May '25
- Working on a team of 6 individuals to set up a new refinery wide website
- Revamped an outdated website to increase efficiency within the refinery by inputting a sleeker look and easier functionality.
- Imported and exported Power BI and Excel data to build the documents and forms inside of our website
- Inspected and edited hundreds of forms to ensure that our Operators were able to operate the units of the refinery safely

Summer Youth/Year-Round, Intern   MARATHON PETROLEUM COMPANY May '21 – Jul '22
- Exported data from SharePoint libraries into Excel for Power BI reports to keep track of staff and safety reports
- Updated Power BI reports to change data sources from shared drives to online files
- Identifying incident reports and meeting information to ensure the safety of Operators
- Wrote hundreds of step-by-step procedural documents for operators to use in the field
- Used Microsoft PowerPoint to hold safety presentations for our team and to demonstrate the necessity of our program to HR for future generations

PERSONAL PROJECTS/EXTRACURRICULARS

Magic Mirror (Smart Mirror) December 2021
- Utilized Raspberry Pi as the main computer to implement a repository from GitHub designed by an expansive community
- Bought 4 wooden planks from Home Depot and 2-way glass from Amazon to construct the main body of the mirror
- Stripped apart a monitor to its bare parts of the LCD screen and internal components to display the Raspberry Pi
- Utilized Raspbian, GitHub, Linux, and VNC Viewer
- Incorporated various modules to display news around the world, current time, weather, background images, QR code for wifi, and the stock market

WDI Imagination Disney Imagineering Competition November 2024
- Team Lead and 3D Modeler on our Disney Imagineering Competition Project with a team of 3 people
- Organized weekly meetings, deadlines to ensure that we were on top of our schedule
- Utilized Blender (3D Modeling Software) to construct a train to demonstrate our process to better the public transport system of LA
- Designed an app called LAPS on Canva to create our logo and to show the functionality of our app
- LAPS included a map function like Google Maps to find local train stations and an inbuilt currency system to receive discounts on rides

Sensor Fusion for Autonomous Vehicles Aug'24 – Jan'25
- Utilized a Raspberry Pi and a camera to detect obstacles
- Utilized Raspbian and VNC Viewer
- Worked on a team of 8 individuals and our professor

SKILLS

- **Software:** C, C++, C# Raspbian, Python, Linux, MATLAB, Java, HTML/CSS, MPLAB, Blender, Fusion 360, Microsoft Tools, Unity, AutoCAD, Solidworks
- **Hardware:** Electrical Circuit Design, Constructing Circuits, Raspberry Pi, FPGA Nexus A7 100T, Microcontroller PIC18F4620, Soldering