

Jose Ismael Ramirez

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Mechanical Engineer | Skilled in Prototyping & Control Systems | Innovation-Focused Professional

Detail-oriented engineer with hands-on expertise in machine design, prototyping, and control systems, driven to contribute innovative solutions and technical leadership in collaborative environments. Secret Security Clearance.

EDUCATION

California State Polytechnic University, Pomona	Pomona, CA
Bachelor of Science, Mechanical Engineering	May 2025
- Expected Completion May 2025, Current Major GPA, 3.63/4 - Relevant Coursework: Digital Controls, Reliability and Risk Analysis in Engineering	

TECHNICAL SKILLS

CAD & Modeling: - SolidWorks - Fusion 360	Software Development - C++ (Proficient) - Objective-C (Intermediate)	Fabrication & Prototyping - Machining (CNC/Manual) - Welding (MIG/TIG) 3D Printing (FDM/SLA)	Simulation & Analysis: - Mathcad - MATLAB /Simulink - Mathematica - FEMAP NASTRAN
Languages: - English (Fluent) - Spanish (Fluent)	Development Environments: - Xcode - Microsoft Visual Studio	Electronics: - Breadboarding - Soldering - PCB Assembly	Security Clearance: Secret (Inactive-2013)

UNIVERSITY ACTIVITIES

Precision Ball Control Platform Project • Student	Feb. 2024 – Nov. 2024
- Developed and implemented a MATLAB-tuned PID control on Arduino using discrete control methods, achieving optimal performance and ball stabilization with an 8.6-second settling time. - Derived dynamic mathematical model and inverse kinematics equations of a 3RPS Stewart Platform to enable accurate system control and ball stabilization, using Euler-Lagrange method and state-space modeling. - Integrated electrical components and computer vision techniques to detect and monitor the ball's position in real-time to coordinate accurate system control.	
Mini CNC Drill Press Project • Student	Feb. 2024 – May 2024
- Engineered and programmed a fully enclosed mini-CNC drill press using SolidWorks, capable of drilling aluminum with $\pm 0.2\text{mm}$ accuracy. - Conducted finite element analysis (FEA) to evaluate and optimize structural integrity under operational loads. - Collaborated with a multidisciplinary team to design and fabricate the X, Y, and Z axes, ensuring smooth and precise motion control of the drill press gantry system.	
Metal Truck Ornament Project • Student	Jan. 2023 - May 2023
- Utilized knowledge of manufacturing process principles and capabilities to select materials and equipment needed to manufacture and build a metal truck ornament to engineering specifications based on engineering drawings applying GD&T. - Applied tool knowledge such as CNC machining, manual machining, metal casting, welding, soldering, drill and tap operations.	

WORK EXPERIENCE

The Maybourne Beverly Hills Hotel | *Beverly Hills, CA*

Resident Services Agent • *Full-time*

Mar. 2021 – Aug. 2022

- Managed and maintained internal databases and record-keeping systems for 100+ residents, ensuring accuracy, confidentiality, and integrity of resident profiles, contracts, billing, and correspondence.
- Acted as primary liaison between external contractors, maintenance teams, and residents across multi-million-dollar luxury residential properties, managing daily operations and renovations
- Developed and enforced quality assurance standards for hotel maintenance and service personnel, conducting regular audits and inspections that improved guest satisfaction scores and reduced service-related complaints by 20%.

Key Achievement: Established a structured comprehensive job description and standardized operating procedures for Resident Services roles, enhancing operational efficiency, consistency, and employee onboarding processes.

Security Supervisor • *Full-time*

Aug. 2016 – Mar. 2021

- Developed and implemented an Injury and Illness Prevention Program, reducing employee mishaps and injuries by 57% while ensuring compliance with Cal/OSHA standards.
- Implemented new administrative systems and organizational structures, cutting weekly paperwork hours by 50% and enabling faster incident resolution across a team of 15 security personnel.
- Served as Interim Manager, developed and implemented COVID-19 safety protocols ensuring regulatory compliance and guest safety.

Key Achievement: Promoted from Security Officer in 2019 for exceeding goals and supporting company culture. Subsequently awarded Employee of the Year 2021 for exceptional service and dedication to exceeding company goals.

United States Marine Corps | *Camp Pendleton, CA & Okinawa, Japan*

Infantryman • *Active-Duty*

May 2012 - May 2016

- Held a Secret Security Clearance issued by the Department of Defense while operating as a member of an Amphibious Special Operations Capable unit.
- Supervised, mentored and ensured the safety of a 4-person team maintaining a 100% safety/training record.

Key Achievement: Bestowed Good Conduct Medal (Marine Corps) for achieving 3 years of honorable and faithful service with exemplary behavior, efficiency, and fidelity.

Embark Supervisor/ Training Supervisor • *Active-Duty*

Oct. 2012 - Oct. 2014

- Coordinated logistical embarkation of high-value military equipment for multinational operations in 3 countries, ensuring compliance with international customs and regulations.
- Evaluated training and record keeping of 2,700 personnel throughout various training centers.

Key Achievement: Awarded Navy and Marine Corps Achievement Medal for a superior performance and selfless dedication to duty during a Multinational combined arms training exercise in Australia while serving a key role in the Command Operations Center.

AWARDS & ORGANIZATIONS

- **Work Awards:** 2021 Employee of the Year
- **Military Awards:** Navy and Marine Corps Achievement Medal, Good Conduct Medal (Marine Corps)
- **Organizations:** Great Minds in STEM (HENAAC)- 2023 GMiS Delegate, 2022 GMiS College Captain