

Christian Porras

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EDUCATION

University of Texas at El Paso

Bachelor of Science in Mechanical Engineering

El paso, TX

Expected December 2026

University of Texas at El Paso

Bachelor of Arts in Criminal Justice

El paso, TX

Expected December 2026

Relevant coursework : Dynamics, Electromechanical systems, Engineering computations, Graphic and design, Thermodynamics, Fluid Mechanics, Mechanical design, System dynamics, Mechanics of materials, Materials and manufacturing processes, Statics, Intro to thermal fluid science.

Technical skills: Siemens NX, Ntop, 3D scanning, Computational fluid dynamics, Failure analysis, Root cause analysis, Cross sectional analysis, Design for manufacturability, 3D printing, Additive manufacturing, Python, LaTeX, MatLab, Solid works, Fusion 360, Materialize Magics, CNC machine, Surface finishing, Prototyping.

EXPERIENCE

Apple

Laser and Metal Additive Intern

February 2025 – August 2025

Sunnyvale, CA

- * Engineered test geometries in Siemens NX and Ntop to benchmark binder jetting and LPBF performance, enabling early calibration and reducing setup iterations by 15%.
- * Designed a new LPBF support structure system using Siemens NX reducing post processing times by 75%.
- * Led root cause and failure analysis for structurally weak binder jet parts improving print reliability by 30%.
- * Spearheaded foundational parameter development for dissimilar metal welding and LPBF creating a reusable process baseline that cut experimental trial runs by 20%.

W.M. Keck Center for 3D Innovation

Undergraduate Research Assistant

January 2024 – February 2025

El Paso, TX

- * Assist in research for developing new methods to increase efficiency by 10% in the processes of additive manufacturing.
- * Optimize and maintain 50+ materials, 7+ LPBF 3D printers, 10 + FDM 3D printers, and necessary equipment for additive manufacturing.
- * Increase production by 15% by maintaining crucial lab equipment like PPE and gases necessary for additive manufacturing.

El paso International Airport

Ramp Lead

January 2022 – December 2022

El Paso, TX

- * Lead teams of 5+ staff to maintain a steady work flow in order to meet departure times of aircraft.
- * Coordinate teams of 10+ to maintain a safe work place and ensure PPE is provided to all staff.
- * Trained new staff on how to work around heavy machinery in a safe manner

HONORS AND AWARDS

Deans list : Spring 2020, Fall 2020, Summer 2021, Fall 2021, Summer 2023, Fall 2023, Spring 2024, Summer 2024, Fall 2024