

Cesar Fernandez-Prado					
Mechanical Engineer					
Quintana Roo, Mexico	+1 (480) 200-0097	cesar.fernandez.prado@gmail.com	www.linkedin.com/in/cesar-fernandez-prado/		
PROFILE		Product development-oriented Mechanical Engineer experienced in taking concepts through prototyping, testing, and iterative refinement. Skilled in failure analysis, data analysis, and process automation. Passionate about building reliable user-centered products that balance performance, cost, and reliability.			
SKILLS		CAD Modeling	Matlab/Simulink		
		CFD Simulation	Mechanical Design		
		Engineering Drafting	Probabilistic Engineering		
		FE Simulation	Advanced Solidworks		
EMPLOYMENT HISTORY					
June 2021 — August 2023		GIS Subject Matter Expert for Apple Maps, Apple Inc. <ul style="list-style-type: none">• Took ownership of improving the quality and efficiency of data analysts, resulting in a 20% reduction in defects• Formulated and reported KPI's for global events and areas serving over 100M users, highlighting achievements and identifying areas for improvement• Conducted thorough Root Cause Analysis, developed effective corrective action plans, tracked their implementation, and regularly reported trends to leadership.• Developed and updated existing operating procedures and training materials related to Data Quality and Maintenance, ensuring that all materials are up-to-date and relevant to the current needs of the organization			
January 2021 — Sep 2021		Research Engineer in Energy Dispersive Diffraction, Lockheed Martin <ul style="list-style-type: none">• Optimized data analysis techniques for X-Ray Diffraction Spectroscopy, improving denoising methods and peak detection in 3D residual stress data• Created and implemented Matlab scripts to automate denoising and peak detection processes of dense data sets and improving data quality by 25%• Demonstrated self-reliance in producing high-quality results and deliverables within tight deadlines.			
Sep 2020 — June 2021		Research Assistant in Reliability Analysis of Aerospace Structures, St. Mary's University <ul style="list-style-type: none">• Utilized statistical analysis of failure-probability models to optimize inspection scheduling of a aircraft, resulting in a significant increase in maintenance efficiency• Designed and implemented Matlab programs that create and update probability of failure models• Conducted comprehensive failure analysis of a aircraft structures and employed Bayesian Inference to update failure probability for improved safety and performance			
EDUCATION					
Aug 2015 — May 2020		Bachelor of Science in Mechanical Engineering, St. Mary's University <ul style="list-style-type: none">• GPA 3.3			
LANGUAGES		English	Native Speaker	French	Good command
		Spanish; Castilian	Native Speaker		
COURSES					
Jun 2020 — Aug 2020		Using Python for Research, <i>Harvard University</i>			
PROJECTS		Formula 1 Live Data Telemetry Tracker with Streamlit Python Library			