

JOSE BARRON

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EDUCATION

RICE UNIVERSITY

MSc in Engineering Management and Leadership

- Specialization in Mechanical Engineering
- Expected graduation date: May 2026

Houston, TX
August 2024 - Present

INSTITUTO TECNOLÓGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY

BSc in Mechanical Engineering and Processes Administration with a minor in Aeronautics

- Graduated with honors GPA 93/100

Queretaro, MX
2017-2022

PROFESSIONAL EXPERIENCE

GE AEROSPACE

Product Definition Engineer II

- Definition of parts, modules, and assemblies in the form of 2D cross sections, 3D models, tolerance stack-ups, and various electronic data formats to support analysis, manufacturing, assembly, tooling, and inspection. Components include sheet metal brackets, machined parts, fittings, tubes, hoses, and electrical harnesses.
- Designed a pressurization line to address LM2500 engine clutch overheating problem; redesigned surrounding hardware affected by the modernization of electrical interfaces as part of the electric starter system project. Vessels include Spain's F-110, US's FFG-62 and Finland's SQ2020 for a total of 6 on & off engine production and retrofit configurations
- Lead the design of the Electrified Powertrain Flight Demonstration (EPFD) project pressurization line to cool motor-generator; tracked deliverables and managed product definition resources
- Lead the redesign of LM2500 engine's rigid harness for the power turbine speed sensor with a flexible harness; planned the design phases and tracked deliverables

Queretaro, MX
August 2022– June 2024

Intern

- Supported the design of the Reverse Bleed System (RBS) designed to reduce fuel-nozzle coking for LEAP engines with technical drawings and documentation

April 2021 – August 2022

VOLUNTEERING EXPERIENCE

PREPANET

Tutor

- Taught two high school courses: computing and history

Online
January 2020 - August 2020

AWARDS

FULBRIGHT-GARCIA ROBLES RECIPIENT

- Awarded a Fulbright-García Robles grant to pursue a Master's degree for 2 years

June 2022

INSTITUTO TECNOLÓGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY

- Scholarship student
- Student athlete 'Borrego Dorado' award recipient

2017-2022
June 2022

SKILLS

Technical: MS Office (advanced), Siemens NX (advanced), ANSYS (basic), MATLAB (basic), PL C (basic)

Language: English (fluent), German (basic)

Certifications: CSWA - Certified SolidWorks Associate, Owning your success GE leadership course