

DAVID E. CANDELARIO RECABARREN

MECHANICAL ENGINEER

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PROFESSIONAL SUMMARY

B.S. in Mechanical Engineering, cum laude, July 2026, with hands-on experience designing and manufacturing human-powered vehicles, including drivetrain, braking, and aerodynamic systems. Proficient in SolidWorks, ANSYS, AutoCAD, and Python, with experience in prototyping, engineering analysis, and collaborative product development. Seeking an entry-level mechanical design or manufacturing engineering position.

EDUCATION AND CERTIFICATIONS

B.S. in Mechanical Engineering. Cum Laude | University of Puerto Rico, Mayagüez Campus 2026
EIT Certification | NCEES, Puerto Rico FE exam scheduled (2026)

TECHNICAL SKILLS

Coding: Python, MATLAB | CAD: SolidWorks, AutoCAD | CAE: ANSYS | Manufacturing: CNC Machining, Soldering, 3D printing, Prototyping | Controls: Arduino, PLC | Data Tools: ArcGIS, Microsoft Office

PROFESSIONAL EXPERIENCE

Human Powered Vehicle Challenge Team | Member/ Aerodynamics Lead 2023- 2026

- Supported the design and integration of the drivetrain, braking, wheel, steering, and front-axle systems for a competition human-powered vehicle.
- Led an ANSYS aerodynamic evaluation to determine whether a fairing justified its added weight and manufacturing complexity; recommended redirecting resources toward higher-impact systems.
- Participated in tube bending, welding, drilling, cutting, polishing, frame assembly, and final vehicle integration.
- Helped develop a temporary front-axle solution after only two of four custom U-joints were delivered.
- Competed nationally in Virginia; the UPRM team received the Sportsmanship Award.

Municipio Autónomo de Canóvanas | Assistant GIS & Planning Technician 2019

Used ArcGIS, Google Earth, and OpenStreetMap to support urban planning, mapping, and spatial-data analysis for a municipality covering approximately 28 square miles and 42,000 residents.

PERSONAL SKILLS

Teamwork | Adaptability | Problem-solving | Fast Learner | Willingness to learn | Critical Thinking | Communication

LANGUAGES

Bilingual | English and Spanish

ENGINEERING PORTFOLIO

Project case studies, CAD models, simulations, fabrication, and testing.
davidcandelario.com

