

Santiago Proano

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PROFESSIONAL SUMMARY

Mechatronic Engineer and Biomedical Engineering graduate student experienced in device development, prototyping, biomedical research, troubleshooting, and technical operations, with expertise spanning mechanical, electrical, automation, and biomedical engineering systems.

SKILLS

Engineering: Biomedical Instrumentation, Mechatronic Systems, Device Fabrication & Testing, Mechanical & Electrical Troubleshooting

Design & Prototyping: CAD, 3D Printing, Prototyping, Experimental Design

Technical: MATLAB, Data Collection & Analysis, Quality Control, Technical Documentation

Languages: Spanish (Native), English (Advanced)

EDUCATION

Master of Science, Biomedical Engineering

University of New Haven

Honors/Awards: Outstanding Student Award (2026)

December 2026

West Haven, CT

GPA: 3.76/4.00

Bachelor of Science, Mechatronic Engineering

Universidad Internacional Del Ecuador

June 2026

Quito, Ecuador

GPA: 3.00/4.00

PROFESSIONAL EXPERIENCE

Student Teaching Assistant III-BME

University of New Haven

April 2025 – Present

West Haven, CT

- Support biomedical research through data collection, analysis, and technical laboratory assistance.
- Design and fabricate mechatronic devices supporting experiments and laboratory equipment improvements.
- Train students in 3D printing, CAD design, and biomedical prototype development.
- Collaborate with faculty and students to implement innovative laboratory engineering solutions.

Vice President, Biomedical Engineering Society

University of New Haven

January 2026 – Present

West Haven, CT

- Establish biomedical industry partnerships and manage career events, organizational budgets, and LinkedIn engagement.

IT Support Specialist – Conference Services

University of New Haven

May 2025 – August 2026

West Haven, CT

- Configured audiovisual and IT equipment and provided on-site conference technical support.
- Resolved live technical issues, minimizing disruptions and ensuring reliable event operations.

Workshop Manager

Coeconst S.A.

September 2023 – December 2024

Quito, Ecuador

- Evaluated and troubleshoot construction machinery and electromechanical equipment for commercial applications.
- Advised customers on equipment selection, operation, specifications, and technical requirements.
- Coordinated equipment maintenance, spare parts, and post-sales support across technical teams.

Technical Advisor

Codetec

July 2018 – March 2022

Quito, Ecuador

- Diagnosed mechanical, electrical, and control-system failures in construction machinery and equipment.
- Performed preventive and corrective maintenance supporting equipment reliability and operational performance.
- Provided technical guidance on equipment operation, maintenance, repair, and troubleshooting procedures.

PROJECTS

- Characterization of Fouling on Silica Nanoparticle (SiNP)-Coated Feeding Tube After Formula Flow (ASAIO Journal)
- Design & Development of a Microfluidic Device Using a High-Resolution 3D Resin Printer for Nanoparticle Formulation
- Acquisition and Processing of EMG Muscle Signals Using a Biosensor for Control of a Prosthetic Hand
- Storage System for Automated Object Classification Based on Color Analysis