

Francesco De Lorenzo

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QUALIFICATIONS

Technical Skills:

Mastered, through Coursework and professional experience several hands-on skills such as; Soldering • PCB Design • Breadboard Design • Circuit Troubleshooting • Metallurgy • Oscilloscope Operation • Bilingual (Spanish)

Projects:

Multilevel Voltage Regulator PCB • Bandpass Sallen Key Filter Breadboard • Performance Gimbal Mounted Camera Drone

Programming Languages:

Developed proficiency in and actively implemented the following languages during my college studies; MATLAB • C++ • Arduino • MPLAB XIDE • Micro Python

Computer Software / Frameworks:

Confident with the application of; Multisim • SolidWorks (CSWA Certified) • AutoCAD 2D • Visio • Microsoft office • Excel • Altium (PCB Basic Design Course Certified) • LTspice

EDUCATION

Bachelor of Science, Electrical Engineering - 3.6 GPA

June 2026

Seattle Pacific University, Seattle, Washington

Relevant course work:

Circuits 1 & 2 • Programming • Data Structures 1 • Microgrids • Logic system design • Embedded Systems • Engineering Statistics • Electronics 1 • Microcontrollers • Junior Design

In Progress Course Work:

Signals & Systems • Electronics 2 • Senior Capstone

PROFESSIONAL EXPERIENCE

Electrical Engineering Intern

June – September 2025

Sazan Group Inc, Seattle, Washington

- Hired to assist in Fire Alarm System Renovation, Multiple Energy Source Lockout Tagout Design, and Updating Electrical Blueprints to meet Boeing Standards.
- Designed Lockout Tagout procedures for Industrial Cranes, Air Handling Units, Heat Curing Booths, and other heavy Machinery that met Boeing Safety Standards.
- Assisted in the design of fire alarm renovations that brought older systems up to current fire safety standards.
- Updated previous electrical renovation blueprints in AutoCAD to more accurately display how wiring and electrical panels were installed on sight.
- Observed and participated in professional group projects that required cross discipline meetings and coordination.

IEEE Research Paper

Accepted June 2025

Leveraging Airborne Wind Energy Systems (AWES) to Build Reliable Microgrids in Remote Regions

- Learned to collaborate closely with peers and professionals to complete extensive research and calculations to write a publishable research paper.

BENOIT L.; NAKAMORI M.; DE LORENZO F.; RODRIGUES Y. R.; "Leveraging Airborne Wind Energy Systems (AWES) to Build Reliable Microgrids in Remote Regions," IEEE PES/IAS PowerAfrica, Cairo – Egypt, 2025. (Accepted).

Technical Assistant

October 2024 – May 2025

Elliot Bay Industries, Seattle, Washington

- Brought on to complete tasks such as wiring, circuit assembly, hardware installation, PCB Soldering, and mechanical assembly of their moisture detection machines.
- Learned to work self-sufficiently and manage my own time.

Steel Sheer Operator

May – September 2024

Bowman Morton MFG, Seattle

- Hired as a steel sheer operator using an Accusheer 10-0 metal sheer to cut full steel sheets to size. This also included the use of a laser cutter, 85-ton punch press, turret punch, and a press brake.
- Finally, when there were feasible 3D modeling jobs such as industrial beams or railings that needed to be done, I was tasked with rendering them in SolidWorks.