

EDUCATION

Gonzaga University

Bachelor of Science, Electrical Engineering

December 2019

SKILLS

- **Hardware:** PCB design (Eagle, KiCAD), Fusion 360, ANSYS HFSS, AutoCAD, KLayout, LTspice, Verilog
- **Software:** Python, JavaScript/TypeScript, React, SQL, Docker, n8n, NGINX, Gitea, Baserow
- **Test and measurement:** WinCal, Metas VNA Tools, JMP, MATLAB, LabView
- **Compliance:** CMMC Level 2, NIST 800-171 Rev 2, DFARS 252.204-7012, FAR 52.245-1
- **Languages:** Catalan, Spanish, English

WORK EXPERIENCE

Electrical Engineering Researcher

November 2022 – Present

Continuous Solutions LLC, Portland, OR

- Designed, assembled, and validated relay control and mounting PCBs for production hardware projects in a DoD-contractor environment. Reviewed enclosure mounting and layout and led the lessons-learned documentation that fed the next unit.
- Built a custom high-powered inverter prototype in Fusion 360, managed the BOM, and ran modular assembly and test. Doubled power density over prior designs.
- Authored the company AI Usage SOP aligned to CMMC Level 2, NIST 800-171 Rev 2, and DFARS 252.204-7012: three data-classification tiers, prompt hygiene, vendor approval, incident response, and NIST control mapping.
- Built and own the company intranet (NGINX, Gitea, Baserow), Docker host, scheduled backups, and the FortiGate firewall. Maintain the CMMC Level 2 posture for the engineering environment.
- Shipped multiple internal systems using AI-assisted development with persistent project context, parallel agent tracks, and architecture decisions documented as a first-class artifact. Flagship delivery: a property management system built to FAR 52.245-1 with role-based access for engineers, lab managers, the property manager, and the CEO.
- Run project management for the engineering team: task assignment and tracking, priority pivots, weekly notes, and monthly progress reports to the customer.

Radio Frequency Engineer

March 2022 – November 2022

FormFactor Inc., Beaverton, OR

- Managed the RF wafer-probing lab for semiconductor development and manufacturing. Led projects end to end including timelines, priorities, and requirements.
- Designed PCBs from schematic through layout, characterization, and BOM. Simulated RF designs and correlated s-parameters with measurements.
- Built standardized lab procedures and Python/LabView equipment automation. Collaborated with manufacturing on new membrane layouts for high-speed, high-power RF designs.

Quality Engineering Technician

December 2020 – May 2021

Schweitzer Engineering Laboratories, Pullman, WA

- Identified root cause of failure on a wide range of electrical components, including repeated error patterns in production.
- Worked across energy transmission products and component-technology development.

ACADEMIC EXPERIENCE

Research Intern, Smart Antenna Radio Laboratory

May 2019 – December 2020

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- Improved performance and reduced cost of antenna designs using ANSYS HFSS.
- Ran RF measurements in the anechoic chamber with spectrum analyzers, oscilloscopes, and power meters.

E-Bike Senior Design Project

September 2018 – April 2019

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- Designed and built a resistive traction control system for direct-drive E-bikes.
- Built the power management module to pulse generator power through a resistor.

SELECTED PROJECTS

- **mosaic-financials.** Open-source small-business financial reconciliation toolkit. github.com/llompi/mosaic-financials
- **Operating an Autonomous Coding Agent Under Human Control.** Case study on running an AI coding agent in a CMMC Level 2 environment under human checkpoints, reversibility, pre-flight gating, and verify-before-claim controls. llompi.github.io