

Elvyn Cachapero

Baton Rouge, LA | (225)-456-6677 | ecacha1@lsu.edu

EDUCATION

Louisiana State University (LSU), Baton Rouge, LA

May 2025

Bachelor of Science, Computer Engineering

Related Coursework: Digital Logic, Electronics, Circuits, PLC, C++, MIPS Assembly, ARM Assembly, Verilog, Microprocessors, PSPICE/MATLAB, Signals & Systems, Computer Networking, Operating Systems

EXPERIENCE

Multi-Terrain Drone Team

Aug 2024 – Present

Team Lead – Autonomous Drone Capstone Project

- Lead a multidisciplinary team in the design and development of a sponsor-backed multi-terrain drone platform.
- Developed Python scripts to enable core autonomous flight features, including logging, object detection, and recording.
- Integrated a machine learning model to perform real-time object detection during flight using an onboard AI camera.
- Diagnosed and resolved circuit-level power issues, ensuring stable operation of flight electronics and peripherals.
- Conducted RF analysis to evaluate communication reliability, calculating link margin and optimizing antenna placement.
- Coordinated task delegation and managed project timelines to meet critical milestones and client expectations.

Personal Technical Projects

July 2019 – Present

Self-Initiated Projects & Enthusiast Work

- Maintained and expanded a personal homelab environment using Proxmox and Docker as the server virtualization management (i.e. Pi-hole, Jellyfin, Wireguard, SAMBA file shares)
- Configured and deployed various network and system administration tools across Raspberry Pi and virtual environments, including static IP setup, firewall configuration, reverse proxy management, and service automation.
- Assembled custom mechanical keyboards, including analyzing PCB schematics, soldering components, and managing firmware.
- Developed strong hardware skills including soldering, crimping, and cable management.

Hospitality Team Member

June 2022 – Present

Drunken Fish, Baton Rouge, LA

- Provide a positive and energetic environment for customers and coworkers by maintaining professional levels of courtesy.
- Coordinated guest seating and reservations to optimize dining flow and minimize wait times.
- Managed phone and online orders with accuracy and efficiency, ensuring a seamless customer experience.
- Maintained a clean and welcoming atmosphere for both guests and coworkers through proactive support and teamwork.

Software Technical Support

May 2020 – Feb 2023

Remote Technical Support Specialist – What Bot Industries

- Provided responsive and professional support to customers via email and Slack, resolving technical issues and user inquiries.
- Collaborated with developers to report and troubleshoot software bugs, contributing to consistent product improvement.
- Performed functional testing and feedback loops for new feature rollouts and software patches.
- Maintained strong working relationships with clients and partners to support long-term satisfaction and product loyalty.
- Operated independently with minimal supervision, managing workload and prioritizing issues in a remote-first environment.

SKILLS & ACTIVITIES

Skills: Microsoft Excel, C++, Python, Soldering, Verilog, Circuit Analysis, Xilinx Vivado, PSPICE, MATLAB, Keil (ARM), MIPS, LogixPro500, OSHA Certification

Activities: UVSA GC Summit III Family Leader, Repairing/modding personal electronics, VSA LSU, Home automation

