

# David Holguín

Baton Rouge, LA | (469) 739-5491 | dholgu1@lsu.edu | [davidholguin.com](http://davidholguin.com)

## EDUCATION

---

**Louisiana State University (LSU), Baton Rouge, LA**

*Roger Hadfield Ogden Honors College*

*Bachelor of Science, Electrical Engineering.*

*Minors: Computer Science, Computer Engineering.*

Relevant coursework: Intro to programming (C++), Circuits, Electronics, Digital Logic, Microprocessor Systems, Controls, Digital Signal Processing, Computer Organization, Electric Power, Power Sys. Modeling, and OS.

**Graduation Date:** May 2025

**GPA:** 4.2

*President's Honor Roll*

## EXPERIENCE

---

**Engineering Intern**

**September 2023 – Present**

*MMR Power Five Engineering, Baton Rouge, LA.*

- Analyzed DC schematics and developed SEL relay settings.
- Performed cable testing inside of new switchgear.
- Designed an ETAP model to run load flow, size transformers, and study system voltage during motor start.
- Substantially reduced manual workload for a tedious project by creating VBA algorithms on uneven datasets.
- Tested HMI designs and checked SCADA tags prior to commissioning using SEL RTAC and relays.
- Checked electrical drawing packets and supervised proper wiring of control cabinets and terminal boxes.

**Lab Teaching Assistant - Digital Logic**

**January 2024 – May 2024**

*College of Engineering, Louisiana State University.*

- Instructed students on how to write programs in Verilog and implement them in Basys3 FPGA boards.
- Supervised the electrical implementation of logic diagrams, enforced safety rules and graded lab reports.

**Supplemental Instructor - CSC 1253: Intro to Programming with C++**

**August 2022 – May 2024**

*College of Engineering, Louisiana State University.*

- Took initiative to creatively illustrate coding basics to improve student understanding and increase retention.
- Applied methods of active learning by creating workshops and fun programming challenges.

**IT Consultant**

**Summer 2024**

**Assistant Manager, Social Media Manager, and Photographer**

**July 2020 – June 2021**

*Maderos de San Juan, Armenia, Colombia.*

- Wired and configured a LAN with a private server for unified storage, improved database, and remote access.
- Supervised the furniture manufacturing area, performed quality control over new products, and tracked inventory.
- Pioneered and operated an online store in conjunction with social media campaigns and advertising.
- Shot professional photos and videos of furniture, models, and interviews with DSLR camera and studio flashes.

## SKILLS / HONORS

---

- Languages: Spanish (Native) and English.
- ETAP, C, C++, VBA, Java, Verilog, MATLAB, assembly (ARM & MIPS), Swift, PSpice, PowerShell.
- Excel macros and VBA, AutoCAD, Photography (Photoshop & Lightroom), Video editing (Final Cut Pro X).
- LSU Sophomore Honors Distinction.
- Recipient of Academic Scholar Nonresident Award and Schlumberger Foundation Scholarship.

## ACTIVITIES

---

- Semi-professional Junior triathlete for the National Triathlon Team (Colombia). **January 2016-March 2018**
- Track and Cross Country (Christ Episcopal School) **July 2018 – May 2019**
- Rotary Exchange Student **August 2018 -June 2019**
- Volunteer for Rotary International and Habitat for Humanity **2017 - 2022**