

Unique Acevedo

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EDUCATION

Rutgers University, School of Engineering

Bachelor of Science, Electrical Engineering

Expected Jan 2027

New Brunswick, NJ

Coursework: Computer Architecture, Digital Logic Design, Digital Signal Processing, Digital Electronics

TECHNICAL SKILLS

Hardware Test & Validation: Circuit testing, oscilloscope, function generator, multimeter, fault isolation, release validation

Programming & Automation: Python, C/C++, Verilog, Git, Arduino, I2C

PCB Design: KiCad, schematic capture, PCB layout, footprint assignment, BOM preparation, ERC/DRC

Circuit Simulation: LTspice, MATLAB

RELEVANT EXPERIENCE

US Polo Association

RFID & Hardware Systems Specialist

Tinton Falls and Elizabeth, NJ

May 2026 - Present

- Diagnose RFID reader, scanner, encoder, and application failures by isolating hardware, software, and data-integrity issues.
- Validate carton receiving, item creation, RFID encoding, and inventory workflows; collaborate with the platform developer to test releases, document defects, and validate fixes.
- Worked with the platform developer on a USPA application update that restored reader compatibility after a device-side update disrupted tag capture.

Store Manager

Dec 2022 - Present

- Manage staffing, inventory, and store performance in Tinton Falls after previously managing Jersey Gardens.

Vector MGT

Software Development Intern

Jun 2024 - Aug 2024

Elizabeth, NJ

- Developed Python scripts to automate recurring data workflows and reduce repetitive manual processing.
- Debugged backend services and validated REST API endpoints using test scripts and log analysis; collaborated using Git and agile practices.

HARDWARE PROJECTS

Discrete BJT Operational Amplifier

2025

Laboratory Project | LTspice | Analog Circuit Design | Hardware Validation

- Built and validated a discrete BJT operational amplifier across four laboratory stages, developing the biasing circuitry, differential input pair, current mirrors, and push-pull output stage.
- Analyzed gain, DC transfer characteristics, and bias stability; combined hands-on circuit testing with LTspice Bode analysis of simulated frequency response and bandwidth.

SpO2 Monitor PCB Design

2025

KiCad | Arduino Nano | MAX30102 | SSD1306 OLED | I2C

- Designed a 2-layer PCB integrating a MAX30102 sensor, SSD1306 OLED, and Arduino Nano; completed schematic capture, footprint assignment, BOM preparation, and I2C routing.

Traffic Light Controller

2025

Arduino | 74HC595 | Breadboard Prototype | KiCad PCB Design

- Built a breadboard traffic-light controller with an Arduino, 74HC595 shift register, transistor drivers, and countdown display; completed a separate KiCad PCB design.

Open to Relocation

U.S. Citizen