

TED ATERA

Senior Electrical Engineering Student Focused on Sensors and Embedded Systems

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EDUCATION

Louisiana State University (LSU), Baton Rouge, LA

May 2026

Bachelor of Science in Electrical Engineering

GPA: 3.60

Relevant Courses Completed: Modern Electronics Lab, Electronics 2, Power, Signals and Systems, Microprocessors.

Relevant Courses in Progress: Senior Design 1, Power System Analysis and Modelling, RF Systems.

WORK EXPERIENCE

Undergraduate Research Assistant

May 2024 – Present

Louisiana State University, College of Engineering

- Designed and built an STM32 based impedance spectroscopy device (DDS + op-amp buffers) for piezoelectric sensors, achieving stable magnitude sweeps across ~50kHz–1MHz.
- Gained hands-on experience with SPI, USART, and programming STM32 microcontrollers in C.
- Presented research on piezoelectric impedance sensing, selected Top 5 Presenter at the LSU Undergraduate Research Conference.
- Developed test procedures and performed bench testing with function generators and oscilloscopes, capturing and analyzing waveforms.

Customer Service Representative

November 2023 – August 2024

Louisiana State University, Facility Services

- Managed ~11 tickets/day and 100+ work orders/month in FAMIS, achieving a high completion rate on campus maintenance and repair requests.
- Helped streamline evening/weekend workflows by identifying bottlenecks, improving processing times.
- Coordinated across teams for timely, accurate work order resolution.

SKILLS

- Altium Designer.
- PSpice Simulations.
- STM32 Programming (C).
- Arduino.
- Fusion 360.
- Sonnet Antenna Simulator.
- ETAP.
- Vector Network Analyzers.

AWARDS AND HONORS

- \$4500 Grant from the NSF – Louisiana Established Program to Stimulate Competitive Research.
- President's Honor Roll: Fall 2022. Dean's List: Spring 2024, Spring 2025.
- Honors College Student.

INVOLVEMENT

LSU IEEE Public Relations Coordinator

August 2025 – Present

- Coordinated club communications and events while also organizing collaborations with other LSU club organizations to increase member engagement.

LSU Amateur Radio Club

January 2025 – Present

- Operated club station to make contacts, maintained logs, and assisted with basic tuning as needed.