

MARCELA CAMPASSI

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EDUCATION

Mississippi State University, Starkville, MS

Expected May 2027

Bachelor of Science in Electrical Engineering | Minors in Mathematics and Artificial Intelligence

Cumulative GPA: 3.86/4.00

EXPERIENCE

Electrical and Computer Engineering (ECE) Foundations Lab Mentor

August 2026 - Present

ECE Dept., Mississippi State University, Starkville, MS

- Guide electrical and computer engineering students through hands-on lab modules covering core circuit analysis along with basic electronic instrumentation.
- Test student conceptual understanding during task evaluations through interactive questioning to verify working knowledge and assign lab grades.

Undergraduate Research Assistant

January 2026 - Present

Center for Advanced Vehicle Systems (CAVS), Mississippi State University, Starkville, MS

- Support hardware design and sensor integration for university research projects involving embedded systems and sensor processing.
- Program microcontrollers and I2C-based sensors in Additive Manufacturing Lab to record and observe environmental factors.

Supplemental Instruction Leader/Mentor

August 2025 - Present

Center for Academic Excellence (CAE), Mississippi State University, Starkville, MS

- Develop and lead biweekly review sessions that reinforce lecture material and prepare students for Microprocessors exams.
- Coordinate with faculty and facilitate collaborative problem solving to improve student engagement and understanding.
- Observe 3 leaders weekly across different disciplines.

Maintenance Technician

July 2021 - Present

Quality Inn, Hamilton, AL

- Assist with electrical wiring, plumbing, and general facility maintenance.
- Troubleshoot and repair equipment and facility issues to restore service quickly and safely.

Instrumentation and Controls Design Intern

May 2026 - August 2026

Entergy Nuclear Headquarters, Jackson, MS

- Supported nuclear plants' refueling cycle extension projects by performing drift analysis and setpoint data validation across engineering calculations.
- Completed Phase 1 of 38 calculations.

Undergraduate Researcher

May 2025 - August 2025

Georgia Institute of Technology, Atlanta, GA

- Conducted cleanroom research on the fabrication of 4H-SiC MEMS gyroscopes.
- Operated 36 cleanroom tools across lithography, deposition, etching, and related fabrication processes.

TECHNICAL SKILLS

Programming: Python, MATLAB, C++, C, PIC24 Assembly, Verilog, KUKA

Software: E2 Studios, Tera Term, Visual Studio, MATLAB, Multisim, Quartus, MPLAB, AutoCAD, Microsoft Word, Excel, PowerPoint, Publisher, Wolfram, KUKA System Software, ROS1, ROS2, micro-ROS

Lab/Hardware: Cleanroom fabrication, sensor integration, soldering, troubleshooting, electrical wiring

Soft Skills: Leadership, technical communication, collaboration, problem solving, mentoring, public speaking

LEADERSHIP AND INVOLVEMENT

- Bagley College of Engineering Ambassador for the ECE Department
- ECE Foundations Lab Mentor
- Shackouls Honors College
- Society of Women Engineers
- Supplemental Instruction
- Tau Beta Pi Engineering Honor Society
- Thrive in Five