

Micaiah Bartlett

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EDUCATION

Bachelor of Science in Electrical Engineering, Minor in Entrepreneurship and Innovation

GPA: 3.69 | Expected Graduation: 2028 | University of South Florida, Tampa, FL

DEVELOPMENT, POLICY & LEADERSHIP EXPERIENCE

Robotics Coach | Caribbean Science Foundation [BJRC Camp](#)

Barbados, June 2026 – August 2026

- Coached students ages 13–16 in an ESP32 based robotic arm and teleoperated tank using a motion sensing glove in a program led by Prof. Cardinal Warde of MIT aimed at harnessing STEM for the economic development of the Caribbean region.

World Bank Group Youth Summit Delegate

Washington DC, June 2026

- Selected as a 2026 World Bank Youth Summit delegate for a Barbados-focused proposal on using robotics to build a future engineering talent pipeline

USF Engineering Expo Presenter

Tampa FL, April 2026

- Showcasing underwater robotics to K–12 students and engaging young attendees in hands-on conversations

Peer Advisor Leader, University of South Florida

Tampa FL, August 2025 – January 2026

- Planned a “How to College Series” titled “Getting Registration Ready” to prepare and advise college students
- Provided 1:1 peer mentoring to advise first-year students and create actionable plans to achieve their goals

TECHNICAL & RESEARCH EXPERIENCE

Undergraduate Research Assistant – [Embodied Robotics and Autonomy Lab](#)

Tampa FL, October 2025 – August 2026

- Implemented ROS2 integration for the BlueROV2 on Linux using BLUEOS, contributing to autonomous underwater robotics research and system testing
- Designed and built the RGB + 3D sonar sensor rig used for underwater data collection, resulting in an accepted publication (uScenes, IEEE OCEANS 2026)

Brake System Plausibility Device (BSPD) Formula SAE Bulls Racing USF

Tampa FL, September 2025 – May 2026

- Designed a safety-critical power electronics circuit for brake/throttle conflict detection, including comparator logic and RC delay networks
- Simulated transient behavior and hysteresis response in LTspice to verify fault stability and minimize false trips during dynamic vehicle conditions
- Captured the schematic and routed a 2-layer PCB in Altium, optimizing component placement, grounding, and creepage/clearance for reliable high-voltage operation

Object Avoidance Robot – Awarded #1 Project, University of South Florida

Tampa FL, November 2024

- Achieved 95% object detection accuracy on autonomous robot by leading testing of ultrasonic sensors and H-bridge motor control in a 4-person team, demonstrating reliable embedded systems performance
- Led testing, breadboard prototyping, and real-time debugging to ensure stable voltage and reliable obstacle avoidance. Documented prototype iterations to support final design selection

PUBLICATIONS

- T. Dong, Z. Wu, A. Penumarti, Z.-H. Zhang, M. Bartlett, J. Shin, and X. Lin, "uScenes: A Multimodal RGB and 3D Sonar Dataset for Underwater Robot Perception," accepted for poster presentation, IEEE OCEANS 2026, Monterey, CA, Sep. 2026.

ENTREPRENEURSHIP & PROFESSIONAL EXPERIENCE

Computer Hardware and Linear Lighting | Founder, Bartlett Tech

Barbados, August 2020 – August 2025

- Designed and assembled high-performance computing systems, selecting components based on power and cost
- Wired, soldered, and retrofitted linear LED fixtures for commercial installs; ensured electrical safety, clean cable management, and consistent lumen output

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- Conducted end-to-end supply chain for branded LED light strips from China to Barbados: vendor vetting, MOQ/quotes, QC sampling, freight/customs, and island distribution, the first product of its kind locally.
- Launched a second SKU (smart interior car lights) one year later, expanding the product line and customer base
- Planned and executed multi-channel marketing (Instagram/TikTok ads, creator partnerships, in-store expos); sold out initial inventory in 30 days

Customer Service Agent | Flight Support Barbados LTD. (interCaribbean Airways) Barbados, December 2023- July 2024

- Utilized VHF radio systems for air-to-ground communication under strict aviation protocols
- Shadowed engineers during post-flight inspections, gaining exposure to aircraft electrical systems
- Coordinated with regional operations center to resolve logistical issues, minimizing service disruptions

Data Analyst | Wyndham Grand Barbados Sam Lord's Castle September 2023 – November 2023

- Built and maintained the hotel's employee database (HRIS/Excel), establishing data standards and ensuring accuracy and confidentiality
- Produced weekly workforce reports for hotel leadership to support staffing, scheduling, and compliance
- Streamlined record-keeping and reporting workflows, reducing manual rework and improving data integrity

Electrical System Intern | William's Electrical Barbados, July 2023 – September 2023

- Interpreted and executed commercial electrical schematics to wire and distribute electrical loads across 3-phase systems, complying with safety standards and reliable power delivery in marine and commercial environments
- Worked with 3-phase systems, circuit breakers, and grounding in commercial settings

HONORS & MEDIA

Wireless and Microwave Operating Fund USF Tampa FL, August 2026 – Present

- Awarded to academically exceptional USF College of Engineering Electrical Engineering students

USF LAC Merit Scholarship Tampa FL, August 2024 – Present

- Merit based scholarship given to students from Latin America and Caribbean

Loop News Featured Article Barbados, September 2023

- Highlighting one of the high-performance computers I made which garnered over 100k views locally

UNICEF Featured Article | [Link](#) Barbados, September 2023

- Highlighting my journey from cricket to business and the story of the company's inception

Youth Entrepreneurship Scheme Honoree | Barbados Government Barbados, July 2023

- Recognized by Barbados' YES magazine for innovation and impact as founder of Bartlett Tech

UNICEF Featured Spokesperson | [Link](#) Barbados, July 2019

- Interviewed on national media to promote sports-based youth development and advocate against child abuse
- Promoting sports as a viable path to success for many children close to and below the poverty line

TECHNICAL SKILLS AND CERTIFICATES

- Electrical: Schematic Interpretation, Multimeter, 3-Phase systems
- Programming & Software: C, ROS2, LINUX, Arduino, MATLAB, Simulink, Altium, Fusion 360, KiCAD, LTSPICE, BLUEOS
- Hardware & Tools: Soldering (ICs & Components), Digital Circuits, ESP32, BLUE ROV2, Jetson Orin, 3D-Sonar
- Certifications: MATLAB Onramp, Simulink Onramp, GE Aerospace Electrical Engineering Job Simulation

SPORTS

Cricket Tour of England | Queen's College Barbados & Wanderers Cricket Club England, August 2019 & 2017

- Cricket team traveled to compete in regional tournament following championship wins in local tournaments