

Bolutife M. Omole

Cambridge, MA | U.S. Citizen

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EDUCATION

Massachusetts Institute of Technology — *B.S. Electrical Engineering with Computing* Aug. 2025 - Expected May 2029

- **Relevant Coursework:** Multivariable Calculus (18.02), Linear Algebra (18.06), Physics II (8.02), Electrical Circuits: Modeling and Design of Physical Systems (6.200), Discrete Math for Computer Science(6.1200), Programming in C and Assembly (6.1903), Power Electronics Laboratory(6.2220)

EXPERIENCE

WATABOT, Cambridge, MA — *Hardware Design Intern* May 2026 - July 2026

- Designed a custom multi-function PCB in Altium consolidating 7 discrete control boards into a single integrated design, managing power regulation, dual-microcontroller interfacing, and 6-channel MOSFET actuator switching for a water-quality analysis instrument
- Took the design through DRC-clean layout to a complete, fabrication-ready output package (Gerbers, BOM, assembly drawings)

MIT Solar Electric Vehicle Team, Cambridge, MA — *Computer Programmer* Sept. 2025 — Present

- Worked with Strategy Subteam to create an interactive dashboard with live route mapping, elevation profiling.
- Included projected state-of-charge and solar insolation along the route to support real-time driver decision-making during the American Solar Challenge

MIT Research Laboratory of Electronics, Cambridge, MA — *Undergraduate Researcher* Jan 2026 — May 2026

- Assisted MIT PhD Candidate Adam Gierlach to create a miniaturized PCB for a wireless gastric neural recording device (MiGUT).
- Developed embedded firmware for a Cortex-M3 microcontroller, implementing SPI communication translated from a Verilog testbench.
- Performed PCB layout, bring-up, and debugging using Altium, validating ASIC communication via benchtop testing and oscilloscope measurements.

SRT Communications, Minot, ND — *Technical Support Specialist* Oct. 2024 — Aug. 2025

- Provided support for hardware, software, and network connectivity issues remotely.
- Accessed SRT routers, access points, and ONTs to diagnose and resolve technical problems.

PROJECTS

Robot Tour — *Science Olympiad* — C++, Wiring, Soldering, Arduino

Built a two-wheeled robot with an **Arduino Uno**, **DFRobot 6V 160 RPM motors**, and an **Adafruit Motor Shield** on a 3D-printed frame created by Tektite. Wired and soldered components, and programmed motor control in C++ to create a fully functioning robot.

SKILLS

Programming Languages: Python, C, Assembly, HTML, CSS, JavaScript

Hardware and Engineering: PCB Design, Circuit Design, Soldering, Oscilloscope, Arduino, Web Development

Tools and platforms: Git, GitHub, VSCode, Altium Designer, Code Composer Studio

Certifications: CompTIA Tech+