SUI XIANG (Cici)

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EDUCATION

Boston University *September 2025-May 2028*

Bachelor's of Science in Electrical Engineering

Related coursework: ENGEC327 Intro to software engineering, ENGEC455 Electromagnetic system I, ENGEK307 Electric Circuits

EXPERIENCE

Laboratory assistant - BU Engineering Product Innovation Centre *May 2026 - present*

- Operate and maintain CNC mills and lathes, manual mills and lathes, waterjets, laser cutters, 3D printers, and soldering equipment.
- Provide safety supervision, technical support, and equipment training to students operating CNC machines, waterjets, laser cutters, 3D printers, and other fabrication equipment.
- Fabricate course and demonstration components for ME559, ME358, ME359 and EK131 using Wire Electrical Discharge Machining and CNC mills.

Electrical engineer - Boston University Rocket Repulsion Group Avionics team *September 2025 - present*

- Design and integrate the Argo RF video downlink system for a rocket targeting a 100,000-ft apogee, researching and selecting COTS transmitters, receivers, antennas, and video hardware to meet RF and power requirements.
- Design an eFuse protection circuit for a 24 V-to-12 V DC/DC power converter, selecting components and configuring current limiting, overcurrent protection, and soft-start behavior for the 12 V power rail.
- Conducted 50+ flight simulations and deployment tests to evaluate COTS flight computer performance, troubleshoot recovery event timing, and validate avionics behavior under varying flight conditions.
- Design and fabricate custom rocket hardware and tooling, including flare gauges and nozzle components, using CAD, precision machining, and waterjet cutting.

Intern in Sales in Chemical Industry - Fenchem Malaysia Sdn Bhd *June-August 2024*

- Supported chemical product sales and coordinated meetings with external partners, gaining exposure to industrial chemical applications and B2B client communication.

Research in Breast Cancer and Metastasis, Lumiere Individual Research *September-December 2024*

- With Ngozi Akingbesote, Ph.D. student from Yale, explored clinical pathology, current therapeutics, resistance mechanism, patient risk factor through literature review.

PROJECTS

Boston University EK210 - Deskinator Autonomous Cleaning Prototype *January-May 2026*

- Designed and built the robot's circuit system, integrating Arduino control, ultrasonic sensing, infrared sensing, DC motors, and motor driver components.
- Implemented edge detection and debris collection through circuit testing, wiring integration, and iterative troubleshooting.

Boston University EK131 - Temperature Monitoring system *September-December 2025*

- Designed and built a temperature sensing and alert system using a TMP36 sensor with integrated power management and wiring.
- Implemented LED and buzzer indicators to signal temperature within a range.

SKILLS

Programming: MATLAB, Python, C/C++

Developer Tools: Git, Github, VS Code

Engineering Software: Altium Designer, SPICE, KiCad, Autodesk Fusion ((CAD/CAM, CNC Toolpath Programming), Onshape, Bambu Studio, Adobe Illustrator, CorelDRAW