

Farah Abraham

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EDUCATION

Temple University, College of Engineering

Bachelor of Science in Electrical and Computer Engineering | GPA: 3.32/4.00

Selected Courses: Introduction to Engineering: Problem Solving, Circuits, Digital Circuit Design, Engineering Computations

Expected December 2028

Philadelphia, Pennsylvania

SKILLS

Programming Languages: Java, Python, C, C++, Verilog, Swift

Software: MATLAB, JMP, Microsoft Office (Excel, PowerPoint, Word), Multisim, AWS

Laboratory Tools: Digital multimeter, oscilloscope, function generator, breadboarding

RELEVANT EXPERIENCE

Portable Oxygen Monitoring System for Obstructive Lung Disease Patients

Temple University

February–April 2025

Philadelphia, Pennsylvania

- Designed a portable oxygen monitoring system intended to improve accessibility for patients with chronic obstructive pulmonary disease (COPD).
- Researched respiratory physiology and patient oxygen needs to guide device development.
- Collaborated with team members to design system components and prepare preliminary specifications.

Incubator Delivery Prototype

Temple University

November–December 2024

Philadelphia, Pennsylvania

- Programmed micro:bits to control heating, monitor temperature, and maintain an incubator between 85–90°F, with visual and audio alerts when temperatures fell outside the target range.
- Developed communication between two micro:bits to display temperature and system status externally.
- Helped define design requirements and integrate insulation into the system.
- Authored user instructions and supported testing to verify temperature consistency.

PERSONAL PROJECTS

Tic-Tac-Toe | *Swift*

- Programmed a Tic-Tac-Toe game in Swift that allows a user to play against an automated computer opponent.

ADDITIONAL EXPERIENCE

Owl Ambassador

Temple University, College of Engineering

August 2025–Present

Philadelphia, Pennsylvania

- Represent the College of Engineering as a welcoming first point of contact for prospective students and families.
- Lead campus and engineering facility tours highlighting academic programs, student resources, research opportunities, and campus life.
- Answer questions about admissions and academics, share student experiences, and communicate with diverse audiences.

Teaching Assistant, Engineering Seminar

Temple University, College of Engineering

Philadelphia, Pennsylvania

LEADERSHIP AND ORGANIZATIONS

Resident Assistant | *Temple University*

August 2025–Present

Professional Development Chair | *Temple Biomedical Engineering Society*

September 2024–Present

Social Media | *Institute of Electrical and Electronics Engineers (IEEE)*

January 2026–Present

Event Coordinator | *Women in Engineering*

January 2026–Present

Member | *Tri-Alpha Honor Society*

ACHIEVEMENTS

Temple Hardware Hackathon — Sustainability Category Winner