Namir Sabuwala

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EDUCATION

Arizona State University | School of Electrical, Computer and Energy Engineering   Graduating May 2026
- Awards: New American University Scholarship, Dean's List
- GPA: 3.58

SKILLS

Technical Skills: MATLAB, Excel, Fusion 360, LTSpice, Digital Design, KiCad, Arduino, Python

PROFESSIONAL EXPERIENCE

Center for Accelerating Operational Efficiency - Intern   June 2024
- Used data analysis and simulation to solve critical real-world challenges encountered by the Department of Homeland Security relating to TSA
- Acquired expertise with various tools for data analytics , decision analysis, excel, simulation, and operations research techniques.
- Used various software programs to simulate situations and collect data in order to make conclusions on what methods are most proficient.

SHaDE Lab ASU - Engineering Team   January 2024 - May 2024
- Aided in building a Power supply for a Thermal and Weather sensing robot for the MarTiny Project.
- Utilized Arduino programming and a microcontroller to enable hardware, such as cameras and sensors connected to the arduino, to detect and differentiate between people in shaded and sunlit areas.

ASU FURI - Researcher   August 2024 - Present
- Developing beamforming methods and algorithms using microcontrollers such as arduino to achieve sensing applications, such as localization of people in a room, and vital signs using metasurfaces.
- Using deep learning AI algorithms to improve the sensing applications of the metasurfaces.
- Designing a simulation of an incident and reflected ray that will be implemented into a code that gives a Metasurface pattern.

Engineering Student Success Office - Office Assistant   February 2024 - Present
- Supporting various Student Success and engagement initiatives within the Ira A. Fulton Schools of Engineering.
- Organizing and engaging with the public within major Fulton signature events such as FURI, EPICS, and GCSP.

Institute of Electrical and Electronics Engineers - Member   November 2023 - Present
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- Actively engaging in the engineering community to pursue and learn about more opportunities in the field.
- Participating in company tours and meeting with industry professionals.

LEADERSHIP EXPERIENCE

ASU Fulton Ambassador   November 2023 - Present
- Promoting the Ira A Fulton School of engineering at ASU through tours and events.
- Sharing the ASU experience from a student's perspective.
- Leading tours and facilitating events to engage students in the ASU school experience.

PROJECTS

- Designing an HTML website to showcase my experience and interests:
  https://nsabuwala.github.io/NamirSabuwalasWeb/index.html
- Designing a simulation of an incident and reflected ray that will be implemented into a code that outputs a Metasurface pattern.
- Creating a digital readout of Voltage, current, and power of a solar panel using an LCD display.
- Designing circuits using wye generators, rectifiers, and diodes in academic Labs.
- Designing a complete microprocessor with digital circuits.
- Designing rings and jewelry using Fusion 360 to distribute to organizations at ASU.