

Abu - Saeed M. Islam

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EDUCATION

University at Buffalo, The State University of New York

Buffalo, NY

- Bachelor of Science in Electrical Engineering
 - Cumulative GPA: 3.90 / 4.00.
 - Honors: Dean's List, Albert and Henrietta Ziegele, Jr. Scholarship (2021), Charles H. McCullough, Jr. Scholarship (2021).
 - Undergraduate Student Assistant (tutor/lab instructor) in Digital Principals.

Expected May 2025

PROFESSIONAL EXPERIENCE

Schneider Electric

Remote

- *Researcher (Global Student Experience)*
 - Implemented a comprehensive sustainable business strategy for a large enterprise on behalf of Schneider Electric.
 - Assessed the financial impacts of green practices on the enterprise.

May 2023 – August 2023

National Aeronautics and Space Administration (NASA)

Remote

- *Electrical Engineer (Mission Concept Academy)*
 - Collaborated with an 8-member team to develop a 135-page preliminary design review (PDR) for a conceptual Martian North Pole mission.
 - Implemented a 180-day power budget and electrical power system (EPS) design for the conceptual lander.
 - Contributed cross-functionally to communication system development for the lander.
 - Attained a solid understanding of engineering and project management fundamentals.
 - Utilized diverse engineering drafting and simulation programs.
 - Presented the PDR to a panel of Mission Concept Academy (MCA) mentors.

August 2022 – May 2023

National Aeronautics and Space Administration (NASA)

Remote

- *Electrical Engineer (Proposal Writing and Evaluation Academy)*
 - Contributed to proposing innovative structural battery technology for unmanned aerial vehicles (UAV) within a 7-member team.
 - Developed a project implementation plan with subject matter experts within a budget of \$10,000.
 - Collaborated on a review panel with NASA experts and reviewed three other proposals.

May 2022 – August 2022

AT&T

Remote

- *Extern*
 - Attained an in-depth understanding of the principles of different networking systems.
 - Conducted research on the fundamentals of machine learning and artificial intelligence.

June 2021 – August 2021

PROJECTS

Wind Turbine Prototype Project (University at Buffalo, The State University of New York)

Buffalo, NY

- *Engineer*
 - Led a team of four in simulating and optimizing project design using White Box Learning.
 - Conducted experiments and proposed two enhanced prototype designs.
 - Presented the project to a panel, securing the Engineering Design Award for one of the best prototypes.

August 2020 – December 2020

SKILLS

- **Computer:** Microsoft Excel, Microsoft Word, Microsoft PowerPoint.
- **Programming languages:** C, C++, Python, MATLAB.
- **Drafting and Simulation:** Siemens NX, LT Spice, Multisim.

CERTIFICATIONS

GE Aerospace Explore Engineering Virtual Experience Program on Forage – August 2023

Researched energy source design's performance implications and investigated the effects of compression and bypass ratio.

ADDITIONAL INFORMATION

- **Interests:** Personal stock portfolio management, American football.
- **Other Activities:** Member, Institute of Electrical and Electronics Engineers (IEEE) (March 2023 – present). Potential Member, Tau Beta Pi Engineering Honor Society (December 2023).