Soroush Saririan, EIT

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EDUCATION

Master of Science in Applied Data Science — **Aug 2024 – May 2026**
University of Florida, Gainesville, FL — *GPA: 4.0*

Bachelor of Engineering in Mechanical Engineering — **Feb 2021 – May 2024**
Stony Brook University, Stony Brook, NY — *GPA: 3.70 | Magna Cum Laude, Dean's List*

TECHNICAL SKILLS

Laboratory & Materials: Electron Microscopy (SEM/TEM), Carbon Nanotubes, Epoxy Composites, EMG Sensors, Biomedical Signal Processing, ConsensysPro, Ultrasonic Homogenization

Engineering Software: Fusion 360, SOLIDWORKS, CAD Design, Technical Drawings, Simulink

Manufacturing: Mill/Lathe Operations, Machine Shop Experience, Precision Fabrication

Programming Support: Python, MATLAB, Arduino, R, SQL, Data Analysis |

Languages: Spanish (Conversational)

PUBLICATIONS

Saririan, S., et al. (2024). Experimental investigation of the compressive behavior of epoxy nanocomposites reinforced with straight and helical carbon nanotubes. *Polymer Composites*. doi.org/10.1002/pc.29076

WORK EXPERIENCE

AI/ML Engineering Project Intern — **Aug 2025 – May 2026**
Raytheon, Largo, FL

- Selected for competitive Raytheon sponsored internship to develop engineering tools translating legacy Ada code into C++ and Rust using DARPA AI Cyber Grand Challenge technology
- Managing a project valued at 912 engineering hours to integrate multiple Cyber Reasoning Systems (CRSs), delivering comprehensive reports on system configuration and code reliability

Research Volunteer — **Sep 2025 – Present**
University of Florida, Gainesville, FL

- Conducting gait analysis research on stroke patients to identify muscle activation patterns and evaluate movement mechanics for rehabilitation using Shimmer3 EMG sensors
- Developing data acquisition pipelines to process electromyographic signals, applying signal processing techniques to filter and extract meaningful physiological features
- Collaborating with clinical researchers to translate biomedical data into actionable patient care insights

Graduate Researcher — **Feb 2025 – Present**
University of Florida, Gainesville, FL

- Collecting and processing experimental results for laser metal bending research project, applying integrated mechanical engineering and data analysis methodologies for accurate modeling

Undergraduate Researcher — **Feb 2023 – May 2024**
Stony Brook University, Stony Brook, NY

- Manufactured and tested 100+ nanocomposite samples, achieving 15-20% improvement in compressive strength via optimized Carbon Nanotube (CNT) reinforcement
- Processed samples using ultrasonic homogenization and characterized microstructure via SEM/TEM imaging
- Published peer-reviewed research in SPE Inspiring Plastics Journal as lead author and awarded Richard S. Lee Research Excellence Award

PROJECTS

Propulsion Subsystem Lead — **Sep 2023 – May 2024**
Stony Brook Solar Racing Team

- Designed electric propulsion system using Fusion 360 and SOLIDWORKS, ensuring optimal performance and efficiency for the 2024 Solar Splash Competition
- Managed electrical integration and executed precision manufacturing using lathes and mills for component fabrication