Soroush Saririan, EIT

saririan.s.eng@gmail.com | (518) 847-9639 | linkedin.com/in/soroush-saririan | https://soroushsaririan.github.io

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

Languages: Python, R, SQL, MATLAB, C++, Rust, LaTeX

AI & Frameworks: PyTorch, RAG, LLMs, Scikit-learn, OpenCV, Deep Learning, Pandas, NumPy

DevOps & Tools: Kubernetes, Docker, Git/GitHub, Linux, Streamlit, AWS

Domain Expertise: Biomedical Signal Processing, EMG Data Analysis, ConsensysPro

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 AI assisted tools translating legacy Ada code into memory safe C++ and Rust using DARPA AI Cyber Grand Challenge technology
- Modifying multiple Cyber Reasoning Systems (CRSs) to integrate LLM analysis of source code to identify vulnerabilities, and produce patches for Raytheon
- Managing a project valued at 912 engineering hours to integrate multiple CRSs, delivering comprehensive reports on system configuration and code reliability fixes

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

- Developing Python based data acquisition pipelines to process Shimmer3 EMG sensor signals, applying signal processing techniques to filter and extract meaningful physiological features
- Conducting gait analysis research on stroke patients to identify muscle activation patterns and evaluate movement mechanics for rehabilitation
- Collaborating with clinical researchers to translate complex biomedical data and electromyographic signals 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 science methodologies for accurate modeling and testing

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

- Published peer-reviewed research in SPE Inspiring Plastics Journal as lead author and awarded Richard S. Lee Research Excellence Award
- Manufactured and tested 100+ nanocomposite samples, achieving 15-20% improvement in compressive strength via optimized CNT reinforcement

PROJECTS

Automated Imaging Analysis for Skin Allergen Testing — **Aug 2023 – Present**
Independent Research Project

- Developed computer vision pipeline using OpenCV and ensemble ML models (Random Forest, SVM, CNN) to automate processing of 500+ skin prick test images
- Achieved >90% correlation with clinician scores and 95% accuracy in wheal detection, reducing diagnosis time by 85% (5 min to 45 sec)
- Designed system architecture for clinical documentation, remote dermatology, and telemedicine applications