

LILY SAMOYAN

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2024-2026
2020-2024

EDUCATION

The George Washington University

Master of Science: Electrical and Computer Engineering/Power Systems Concentration

Bachelor of Science: Mechanical Engineering/Aerospace Concentration

- American Society of Naval Engineers Headquarters Scholarship Recipient (2023-2024)
- Amentum Services Internship Scholarship Recipient (2022)
- GWU Presidential and Britten Scholarship Recipient (2020-2024)

WORK HISTORY

In-Q-Tel

Arlington, VA

Associate Project Engineer

May 2023 - Present

- Owned the testing and technical management of 10-15 tech development programs at a time from international start-up companies with up to 6 million dollars in funding, working with software and hardware to develop it for use by the Intelligence Community and other governmental actors. Specifically, I worked with products in the SATCOM, aerospace, microelectronics, and energy spaces on determining mission needs.
- Provide input and assistance in the drafting of contracts between start-up companies and governmental actors to develop requirements across hardware and software programs that are testable and achievable. These requirements shape the development of the product towards government adoption within mission use-case.
- Integrated an autonomous flight controller onto an off-the-shelf drone platform which provided the Project Engineering team the ability to test and demonstrate the capabilities of associated startup technologies.
- Worked with IQT Labs Rapid Prototyping Group to investigate the application of open-source technologies to national security with a focus on AI detection in hydrophones, gimbaled technology, and facial recognition scanning.

Amentum Services Inc.

Washington, D.C.

Team Submarine Engineering Support

May 2022- May 2023

- Completed and worked with the hardware (HW) aspect of system development, which included becoming familiar with EQT and HW tests such as shock, vibration, EMI, etc. and overseeing the testing of these servers. This was done to develop HW that could support software being released to the fleet but also adhering to boat constraints.
- Developed a schedule to expedite the integration of a high priority weapon system into US submarines by three years and reduce cost by up to \$5M. Schedule was pitched by program manager to fleet representatives and approved for circulation and execution.
- Created KPIs and revised the System Engineering Plan (SEP) to refine the business operations to align with DevOps and Agile principles. Liaised with program managers to enforce KPIs contractually.
- Synthesized US and Australian program plans to create a wholistic submarine installation strategy. Strategy is being used by US and Australian engineering teams to ensure appropriate resource allocation between programs and submarine deliveries.

School of Engineering and Applied Science at GWU

Washington, D.C.

Academic Assistant II - Undergraduate Teaching Assistant

Dec 2021- May 2022

- Aided students both educationally and in future planning to help advance their mental health and educational journey throughout the semester by helping with coursework and providing counseling on upcoming milestones.

SKILLS

- Tech Area Experience: Aerospace, SATCOM, X-Ray, Microelectronics, Additive Manufacturing, Cloud Compute, Drones, Edge Compute, Critical infrastructure
- AutoCAD, SolidWorks, Fusion360, Blender3D, FEA, STK Modeling, PrusaSlicer
- Deployment: Docker, AWS, SaaS, PaaS
- Welding, Soldering, Machining, 3D Printing
- FAA UAG-S Certified Pilot
- AWS Cloud Practitioner Certified (2024)
- Salesforce experience
- Software Development: Python, MATLAB, VBA, HTML, CSS, Julia

ACTIVITIES

GWU Baja SAE- Project Manager, Brakes Lead, Steering Lead

gwubaja.wixsite.com/race

- Led a team of 20 students to utilizing a knowledge of CAD, welding, and machining to repair and manufacture a functional vehicle and compete head-to-head with other teams. Organized design meetings to create a program plan and risk matrices to streamline efficiency of design and production.
- Designed and manufactured the steering rack, column, and wheel provide a working steering system in competition.

SEAS Student Peer Advisory Network Mentors- Undergraduate Ambassador Lead

www.seas.gwu.edu/seasspan

- Mentored undergraduate students by organizing a career fair and multiple events to help guide their academic journey. This educated students about work or research opportunities to empower success amongst our undergraduate population.