

Scott Sikorski

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Education

University of Rochester, BS in Computer Science

University of Virginia, MS in Computer Science – RL for Autonomous Robots

Work Experience

Northrop Grumman

Embedded Software Engineer 2

July 2025 - Present

Embedded Software Engineer Intern

June 2024 - May 2025

- Own end-to-end pre-productization embedded mission autonomy software in C#, implementing NMEA0183/2k, CAN, OPC UA for PLC tag protocols within Linux system environment
- Architect software testing strategy for unit, integration, and on payload tolerance end-to-end tests
- Implement CI/CD Jenkins pipeline for automated testing and Docker builds and deployments
- Led beta demonstration with client with marine chart web visualization

Garmin

Summer 2022, Summer 2023

Embedded Software Engineer Intern

- Built sport profiles and integrated autonomous ski features for wearable fitness devices in C++
- Helped design testing strategy for 200+ animations and layouts to ensure correctness and stability
- Developed 5 new widgets within embedded graphics library to support new AMOLED display

University of Rochester Laser Lab for Energetics

June 2021 - May 2023

Research Assistant

- Implemented 10+ new and existing C++ particle fluid simulations into CUDA

Technical Tools & Other

Programming Languages: C#, Python3, C++20, C11, CUDA-11, MATLAB, Dart

Frameworks: .NET 9.0, Jenkins, Docker, Flutter, MSSQL, MongoDB, Flask, PyTorch, AI2-THOR, ROS

Native English Speaker, Working French Proficiency

DoD secret clearance granted May 2024

Projects

Total Running – Running app to share, track, plan, and elevate your training

- Designed and built social running app with friend activity feeds and personalized planning
- Architected and deployed self-trained running metric AI models using Flask and REST APIs
- Developed user heat maps and modified A* algorithm to generate routes for unexplored roads

Lifelong Reinforcement Learning for Task and Motion Planning

- Researched and implemented techniques for dynamic environment and complex task memory
- Used transfer learning and gradient episodic memory to retain task learning in unknown scenarios while continually improving overall model's sequential primitive action and motion planning

Extracurricular and Leadership

Division 1/Division 3 Cross Country & Track and Field Team

2019 - 2025

- Team Captain 2021 – 2023
- 3x Academic All-American, 3x D3 1500M All-American, 4x ACC Academic Honor Roll

Teaching Assistant - Advanced Compilers, Mobile App Development

2021 – 2024