

# 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*