

Member of the Technical Staff, STAR LAB, A WIND RIVER COMPANY - Washington, DC Apr. 2019–Apr. 2022
Provider of cybersecurity solutions for protecting Linux-based systems in mission-critical environments.

Hired to maintain custom Linux kernel-based security module and implement 2 file overlay filesystems an authenticated filesystem and an encrypted file system. Allied with 3–4 technical staff members in managing high-security contracts.

- **Improved correctness of the file system implementation** by debugging and implementing fixes for issues found when guiding customers through the integration process.
- **Advanced file system performance** by debugging complex performance bottlenecks to enable faster and more secure data handling.
- **Boosted Linux security module performance** by developing the kernel implementation, to evolve from experimental phase to tangible, sellable product.

Machine Intelligence Engineer, EMBEDDED INTELLIGENCE - Washington, DC May 2018–Apr. 2019
Cutting-edge R&D company enhancing safety and security of Aenabled systems.

Joined industry contact and friend in supporting DARPA research projects by formulating secure data pipelines and web crawlers to gather large-scale current and historical data from public archives.

- **Informed strategic decisionmaking in research initiatives** by enhancing accuracy algorithms and designing pipelines that processed largescale datasets in partnership with machine learning experts.
- **Strengthened research proposals** by leveraging in-depth knowledge of network protocols to enable precise metadata collection from network traffic, ensuring richer datasets for analysis.

Software Engineer, TRIPWIRE - Atlanta, GA May 2016–Jun. 2018
Provider of cybersecurity risk management, helping organizations build security, compliance, and operational efficiency.

Recruited as network security product subject matter expert, using protocols to gather device information and evaluate risk of malicious intent and use. Collaborated with 20 software engineers and managers to remotely serve clients.

- **Upheld system reliability and minimized downtime for customers** by resolving complex memory issues in network devices using remote debugging techniques and code analysis to identify and fix problems.
- **Maintained high system performance and customer satisfaction** by providing on-call engineering support to troubleshoot and resolve urgent customer concerns.

ORISE Fellow, CENTERS FOR DISEASE CONTROL & PREVENTION (CDC) - Atlanta, GA Sept. 2014–May 2016
The US' leading science-based, data driven service organization that protects the public's health.

Hired as a new graduate to pair with staff and receive handson research experience.

- **Cut data entry time by 50%** by writing programs to automatically input survey data into forms, eliminating need for double student entry.

Education

GEORGE MASON UNIVERSITY – Fairfax, VA
Master of Public Health in Epidemiology | Graduate Certificate in Biostatistics | Bachelor of Science in Community Health

Conference Presentations

Daniel L. Robertson, Jin-Mann S. Lin. Application of computer vision and machine learning to public health data validation. CDC/ATSDR Statistics Day. Atlanta, GA. September 22, 2015