

---

## EXPERIENCE

---

- |                |             |   |
|----------------|-------------|---|
| May 2018       | - present   | <b>Machine Intelligence Engineer</b> , <i>Embedded Intelligence LLC</i>   |
| May 2016       | - June 2018 | <b>Software Engineer</b> , <i>Tripwire</i> <ul style="list-style-type: none"><li>• Wrote a C++ library for fetching the NetBIOS name of a server given a IP address using SMB over TCP</li><li>• Wrote a daemon in C using libraries provided by samba to fetch useful information for detecting vulnerabilities from SMB servers</li><li>• Used standard open source tools to find and fix multiple memory errors</li></ul>  |
| March 2016     | - present   | <b>Board Member</b> , <i>Anidata</i> <ul style="list-style-type: none"><li>• Built a multithreaded web crawler to fetch data for various projects</li><li>• Taught the Fundamentals of Python bootcamp at the General Assembly</li></ul>  |
| September 2014 | - May 2016  | <b>ORISE Fellow</b> , <i>Centers for Disease Control and Prevention</i> <ul style="list-style-type: none"><li>• Created a C++ library that made use of computer vision and machine learning techniques to retrieve handwritten data from surveys</li><li>• Used web scraping techniques with <b>Python</b> and <b>MongoDB</b> to automate the quality control of data deliveries to the team</li><li>• Provided high quality data visualizations to aide in data analysis</li><li>• Maintained, secured, and configured team computers running <b>Linux</b></li></ul> |

---

## Open Source Software

---

### Sylkie - Author

- Tool for IPv6 address spoofing with the Neighbor Discovery Protocol

### smoltcp - Collaborator

- Standalone, event-driven network stack designed for bare-metal, real-time systems.

### Redox OS - Core Team Member

- Unix-like Operating System written in Rust.

### Servo - Contributor

- Contributed to various components of the servo browser engine with a focus on work pertaining to the IPC implementation used

---

## Languages & Skills

---

Rust; C; C++; ARM, RISC-V, & x86 Assembly; Ada; Python; ~~TeX~~

---

## EDUCATION

---

- |      |   |
|------|---|
| 2014 | <b>Master of Public Health in Epidemiology</b> <i>George Mason University</i> |
| 2014 | <b>Graduate Certificate in Biostatistics</b> <i>George Mason University</i>   |
| 2012 | <b>Bachelor of Science in Community Health</b> <i>George Mason University</i> |

---

## CONFERENCE & POSTER PRESENTATIONS

---

- |                    |  |
|--------------------|--|
| September 22, 2015 | 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  |
| August 26, 2015    | Daniel L. Robertson, Kathryn H. Jacobsen, Heibatollah Baghi. Hunter-killed deer as a predictor of notifiable disease rates for Lyme disease and Babesiosis in New Jersey Counties, 1997 to 2013. International Conference on Emerging Infectious Diseases. Atlanta, GA |

---

## HONORS

---

- |      |   |
|------|---|
| 2014 | <b>Delta Omega Honorary Society in Public Health</b> , <i>Gamma Tau Chapter</i> |
| 2014 | <b>Phi Kappa Phi Honors Society</b>   |