

RILEY TUTTLE

26 Village Hill Lane, North Kingstown, RI 02852

(401) 323-5271 rileytuttle@gmail.com

Website: rileytuttle.github.io

EDUCATION

University of Rhode Island, Kingston RI

Graduate (GPA: 3.63/4)

Master of Science in Electrical Engineering May 2018

Certificate in Embedded Systems May 2018

Undergraduate (GPA: 3.79/4)

Bachelor of Science in Computer Engineering May 2016

Bachelor of Science in Applied Mathematics May 2016

Bachelor of Arts in German May 2016

Honors: *Summa Cum Laude*

Centennial Scholar

Dean's List

Scholarships: Lighthouse/Tech Collective; Frank L Woods Memorial;

The Mason B. Kingsbury Memorial Endowment

Honors Societies: Phi Eta Sigma, Tau Beta Pi, NSCS

URI International Engineering Program (IEP)

Technical University of Brunswick, Germany Sep-Dec 2014

EXPERIENCE

Mayflower Communications Company, Bedford MA Sep 2018-Present

Embedded Software Engineer

- GPS receiver software
 - Wrote low level drivers in C to interface with sensors such as accelerometers and gyroscopes
 - Encrypted boot loaders
- Ruggedized handheld radio
 - Worked with low level embedded linux drivers to interface with attached fpga
 - Manipulated linux systems to support different network topologies

University of Rhode Island, Kingston RI May 2016-May 2018

Graduate Research Assistant

- Developed and proctored lab series for senior level Computer Engineering class
 - Taught students: computer organization levels including designing hardware (in VHDL) for FPGA and interfacing it with system via a device driver; developing software in C for embedded system in Linux environment using cross compilation; and Python coding exercises.

IAV (Automotive Engineering), Gifhorn Germany Feb-Aug 2015

Computer Engineering Intern

- Developed analysis tools to visualize automotive sensor data. The tools were used to analyze emissions performance of Audi 6 and 8 cylinder diesel engines. These tools were developed using MATLAB.

Institute for Computer and Network Engineering, Brunswick, Germany Oct-Dec 2014

Research Assistant

- Developed transmission protocols for simulated network in C++ using the OMNeT++ discrete event simulator.

Sensata Technologies, Attleboro MA

Jun-Aug 2014

Electrical Engineering Intern

- Developed debugging tools for an automotive pressure sensor. The Arduino interface communicated with the sensor via I²C and with the host computer via USB.
- The GUI portion of the tool was made with MATLAB.

FujiFilm Electronics Materials, North Kingstown RI

Summer 2012 & 2013

Manufacturing Intern

- Assisted in production of semiconductor cleaning materials (negative tone imaging products), used by companies such as Intel, Texas Instruments, and ON semiconductor.

COMPETENCIES

- VHDL, Verilog
- MIPS and other Reduced Instruction Set Assembly languages
- M4 (ARM)
- C, C++
- Java
- MATLAB, Python
- Bash scripting
- HTML/Javascript
- LaTeX
- Linux and Unix environments

SKILLS AND HOBBIES

- Ultimate Frisbee
- Automotive work
- 3D printing to facilitate side projects