William Lorey

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Education

Missouri University of Science and Technology (Missouri S&T) — May 2019
B.S. Computer Engineering — **GPA 4.0/4.0**
Minor: Computer Science

Experience

Garmin International — Rolla, MO
Software Engineering Intern — *May 2018 - Aug 2018*
- Developed avionics verification software in C to ensure robustness, government compliance, and code coverage
- Analyzed input routing for an avionics flight deck simulator and streamlined the process resulting in a 40% reduction in modules and an 8% reduction in code
- Architected an encryption process for protecting flight deck configuration passwords

Missouri S&T Solar Car Team — Rolla, MO
President — *Aug 2017 - Aug 2018*
- Led a 40-person interdisciplinary team of volunteers in constructing Missouri S&T's 2018 Solar Car, *Independence*
- Secured 2.5x growth in financial contributions for the team from on-campus organizations
- Allocated and managed a six-figure budget towards designing, building, testing, and racing the vehicle

Logistics Manager — *Aug 2016 - Aug 2017*
- Raced in and managed team/race logistics for the 2016 American Solar Challenge and 2017 Formula Sun Grand Prix. *In 2016, our 18-person team achieved 4th place in North America*

Electrical/Software Team Member — *Aug 2015 - Aug 2018*
- Designed, implemented, and tested a driver interface PCB and related software in C to control and drive the Solar Car
- Engineered a database system using SQL and PHP enabling long distance telemetry for near real time data tracking
- Developed battery characterization software in Python used in constructing the car's battery pack

LMI Aerospace — Cuba, MO
.NET Developer Intern — *May 2017 - Aug 2017*
- Expanded and maintained a C# .NET system used by over 130 employees for tracking customer order statuses, factory processes, reporting, production TV displays, and government compliance as the facility's sole developer
- Developed a plant-wide emergency alert web app that integrated employee's smartphones with the intercom system

The Boeing Company — St. Louis, MO
Information Technology Intern — *May 2016 - July 2016*
- Engineered and implemented a social network using SharePoint for leveraging innovation from a team of 300+ Boeing employees. *Project was winner of the 2016 Boeing ITCS Intern Challenge*
- Modernized IBM Rational ClearCase and ClearQuest enterprise solution architecture diagrams for elevated ease of accessing nationwide data center information

Languages & Software

Python (fluent)	C/C++ (proficient)	HTML/CSS (proficient)	PHP (prior experience)
Git Vim	Visual Studio	Code Composer Studio	KiCad

Honors & Activities

Boy Scouts of America – **Eagle Scout**
Collegiate Eagle Scout Association – **Vice President, Treasurer**
Missouri S&T – **Dean's List** (Fall 2015 – Spring 2019)
Missouri S&T Computer Science Department – **Academic Achievement Award**
Missouri S&T Electrical and Computer Engineering Department – **Undergraduate Research Assistant**
Tau Beta Pi Engineering Honors Society – **Member**