

Brian Rieder

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EDUCATION

MICHIGAN STATE UNIVERSITY | MS IN COMPUTER SCIENCE | Cumulative GPA: 3.83 / 4.0
East Lansing, Michigan | Graduation: May 2020 | College of Engineering

PURDUE UNIVERSITY | BS IN COMPUTER ENGINEERING | Cumulative GPA: 3.69 / 4.0
West Lafayette, Indiana | Graduated: May 2020 | College of Engineering | Dean's List (All Semesters)

EXPERIENCE

GE AVIATION SYSTEMS | EDISON ENGINEERING DEVELOPMENT PROGRAM **CIVIL UAS EMBEDDED DEVELOPER & DEVOPS ENGINEER**

July 2018 - August 2019 | Grand Rapids, MI

- Embedded development of a civil-application drone autopilot
- Telemetry log and flight characteristic analysis on actual flight test data
- Standardized development platform for a team of UAS developers to eliminate the "works on my machine" problem.
- Configured and applied a Gazebo simulation framework for use in drone autopilot development

UI DEVELOPER

July 2017 - July 2018 | Grand Rapids, MI

- PR resolution and support for UI aspects of next generation and legacy NG FMS projects.
- Next generation UI feature software development and testing (Ada/VectorCAST)
- Legacy FMS failure and test procedure analysis - V&V tasking
- Scrum development configuration for task assignment and daily progress reporting.

GE AVIATION SYSTEMS | INFRA-ENGINEERING CO-OP/INTERN August 2013 - August 2016 (Rotational) | Grand Rapids, MI

ANALYTICS RESEARCH AND SOLUTIONS ENGINEER

- Generated, validated, and provided datasets to quantify and indicate First Time Yield, Nonconformances, Scrap and Rework, and Out of Box Failures to be reported via Spotfire visualization dashboards.
- Identified issues within Electronics Value Stream sites' data schemas and prescribed solutions that ranged from directly addressing processes to manually compiling reports or PostgreSQL queries to rectify data.

ADVANCED COMMON MODELING ENVIRONMENT (ACME) WEB DEVELOPER

- Created a web based interface for users to interact with an Enterprise Architect driven database.
- Increased autonomy of data entry processes and diagram creation for customer presentation through use of jQueryUI and yFiles libraries in Javascript.
- Implemented back-end server and database interfacing with PHP and MSSQL to retrieve, update, and delete entries from tables with minimal user interaction.

PLATFORM ARCHITECTURE STUDY LEAD SUB-SECTION ENGINEER

- Led modeling efforts on the Platform Architecture Study Internal R&D team working to create a model to migrate future era business jets from a federated platform to a General Electric designed Integrated Modular Architecture (IMA).
- Created the model of and performed functional decomposition, software partitioning, and electrical hardware analysis of ATA 100 defined subsystems 26, 28, and 38: Fire Protection, Fuel System, and Water and Waste.

SKILLS

PROGRAMMING

Most Proficient:

C • C++ • Bash • Python • JavaScript/jQuery • PHP • Verilog

Proficient:

MySQL • PostgreSQL • MSSQL • HTML/CSS • Assembly • Ada

Worked With:

Ruby • Matlab • Android • \LaTeX • Visual Basic • Haskell • Scala • (Emacs) Lisp

SOFTWARE TOOLS

Amazon Web Services (Certified Cloud Practitioner) • Git Administration • Docker • Jenkins • JUnit • Linux Applications