

Brian Rieder

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EDUCATION

PURDUE UNIVERSITY

BS IN COMPUTER ENGINEERING
West Lafayette, Indiana
Expected Graduation: May 2017
College of Engineering
Dean's List (All Semesters)
Cum. GPA: 3.64 / 4.0

PENN HIGH SCHOOL

Grad. May 2012 | Mishawaka, Indiana

LINKS

Github:// [brian-rieder](#)
LinkedIn:// [Brian Rieder](#)

SKILLS

PROGRAMMING

Over 5000 lines:

C • Shell • JavaScript • PHP • Python

Over 1000 lines:

MySQL • PostgreSQL • MSSQL

HTML/CSS • Assembly

Familiar:

Ruby • Matlab • Android • \LaTeX

Introductory Knowledge:

Ada • Java • Visual Basic • Haskell • Scala

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms

Functional Programming

Object Oriented Programming

Unix Tools and Scripting

Microprocessor Interfacing

Research Assistant

Cloud-based Programming Interfaces

Teaching Assistant

Advanced C Programming

ACTIVITIES

- Eagle Scout in the Boy Scouts of America
- Eta Kappa Nu (HKN) ECE Honor Society
- Five Session Co-op in the Professional Practice Organization
- Member of the Electrical and Computer Engineering Student Society

INDUSTRY EXPERIENCE

GENERAL ELECTRIC AVIATION | 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 Research and Development (IRAD) 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**.

P-8 POSEIDON FLIGHT MANAGEMENT SYSTEMS ENGINEER

- Acted as a fully functional **Systems Engineer** and performed **Verification and Validation Testing** for the design of the P-8A, P-8I, and P-8AAS flight management systems.
- Utilized **Ada** programming application to **embedded systems** and scripted AutoTest execution with **Visual Basic**.

ACADEMIA EXPERIENCE

WEB PROGRAMMING INTERFACE | LEAD BACK-END DEVELOPER

August 2014 - December 2014 | West Lafayette, IN

- Constructed a cloud-based programming interface for the Advanced C Programming course in the Computer Engineering department.
- Led the development of the back-end interface created primarily in **Python** using **Apache** and **Django**.

ADVANCED C PROGRAMMING TEACHING STAFF |

UNDERGRADUATE TEACHING ASSISTANT

May 2014 - December 2015 | West Lafayette, IN