Brian Rieder

http://brianrieder.com
brieder@purdue.edu | 574.309.0766

EDUCATION

PURDUE UNIVERSITY

BS in Computer Engineering
West Lafayette, Indiana
Expected Graduation: May 2017
College of Engineering
Dean's List (All Semesters)
Cum. GPA: 3.65 / 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
Over 1000 lines:
MSSQL • Python • 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

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 user of **jQueryUI** and **yFiles** libraries in **Javascript**.
- 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

- Lead modeling design engineer 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)**.
- Led model contribution for assigned subsections of the general purpose business jet model to be delivered to **Dassault Systèmes** and **Gulfstream Aerospace**.
- Oversaw the creation and analysis of ATA 100 defined subsystems 26, 28, and 38: **Fire Protection, Fuel System, and Water and Waste**.
- Performed functional decomposition, electrical hardware analysis, and software partitioning for input/output allocation to the underlying IMA.

P-8 Poseidon Flight Management Systems Engineer

- Contributed to the design of the P-8A, P-8I, and P-8AAS flight management systems.
- Acted as a fully functional **Systems Engineer** and performed **Verification and Validation Testing**.
- 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

- Reconstructed the course grading back-end through utilization of a university server to instantaneously pull, grade, and email results upon receiving submissions using **Bash**.
- Assisted Dr. Alexander Quinn and Dr. Yung-Hsiang Lu in course administration and oversaw grading as well as lab hours.