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

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

SKILLS

PROGRAMMING

Over 5000 lines:

C • Shell • JavaScript • PHP

Over 1000 lines:

MSSQL • Python • HTML/CSS •

Assembly

Familiar:

Ruby • Matlab • Android • LETEX

Introductory Knowledge:

Ada • Java • Visual Basic • Haskell • Scala

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

Under **Dr. Yung-Hsiang Lu**, worked as a team member to design a web programming interface, **SOPAD**, for the Advanced C Programming course in the Computer Engineering department. Led the development of the back-end interface created primarily in **Python** and implemented several ground-up, independent design techniques (e.g., **Sketch-to-Code**).

ADVANCED C PROGRAMMING TEACHING STAFF

Undergraduate Teaching Assistant

May 2014 - December 2014 | West Lafavette, IN

Led the development of a reconstructed back-end for the class through utilization of a university surver to instantaneously pull from a submission repository, grade and assignemtn, and email feedback to a student using Bash. Assisted **Dr. Alexander Quinn** and **Dr. Yung-Hsiang Lu** in course administration and oversaw grading as well as lab hours.