Brian Rieder

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217 Tiffany Circle  
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**Objective**

To obtain an internship in a software engineering role in the summer of 2016 and a full-time position following graduation in the spring of 2017.

**Programming Skills**

**Over 5000 lines:**C  
Shell  
Javascript  
PHP

**Over 1000 lines:**MSSQL  
Python  
HTML/CSS  
Assembly

**Familiar:**Ruby  
MATLAB  
Android  
Latex

**Basic Knowledge:**Ada  
Java  
Visual Basic  
Haskell

**Education**

**Purdue University: Computer Engineering**

West Lafayette, IN

Expected Graduation: May 2017

College of Engineering Cumulative GPA: **3.65/4.0** (Dean’s List/High Honors – All Semesters)

*Notable Coursework:* Data Structures and Algorithms, Functional Programming, Object Oriented Programming, Unix Tools and Scripting, Microprocessor Interfacing  
*Academic Experience:* Advanced C Programming Undergraduate Teaching Assistant, Lead Back-end Developer on the ECE Cloud-based Programming Interface Project

**Industry Experience**

**General Electric Aviation Systems**

Grand Rapids, MI

August 2013 – 2016 (Rotational)

*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.
* Interfaced with back-end server and database with PHP and MSSQL to retrieve, update, and delete entries from tables with minimal user interaction.

*Platform Architecture Study Lead Sub-section Engineer*

* Produced a model to migrate future era business jets from a federated platform to a General Electric designed Integrated Modular Architecture (IMA) as part of the Platform Architecture Study Internal Research and Development (IRAD) team.
* 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.

**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