

# Eric Farmer

## Current

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## Permanent

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## Work Experience

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### **Northrop Grumman Corporation - summers from 2012-2017**

- Designed a prototype embedded system schematic for a critical robot component.
  - Designed and implemented the software interface between microprocessors on various components of the robot.
  - Developed interface control documents for the software libraries and interconnect diagrams for the wiring.
- Developed a software library to interface an attitude heading reference sensor to a BeagleBone.
- Developed a program to extract comments using regular expressions from source code and display them in a stylized static webpage.
- Designed a graphical user interface using Python to simplify and expedite various command-line tasks.
- Developed an XML log file processor to correlate timestamps and various data elements between incoming and outgoing logs on a system.
- Performed code documentation and UML generation using Enterprise Architect for a large-scale program.
  - Mastered the use of Enterprise Architect for creating numerous types of code-documentation diagrams.
- Secured and configured Cisco switches and routers operating at layer two and layer three of the OSI model.

### **Mississippi State University Forensic Training Center – Fall Semester of 2015 and Spring Semester of 2016**

- Developed a network with virtual servers and clients to perform penetration testing.
- Assisted in data recovery from mobile devices and laptops.
- Initiated a website redesign to improve visual components.

## Skills

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- Experienced in Python, Verilog, C, C++, C#, Assembly Language, PHP, VBScript, Visual Basic, and Windows Batch scripting.
- Proficient in soldering electrical components and wires.
- Experienced at using IBM's TeamConcert source control and Git.
- Proficient in design documentation and scripting in Enterprise Architect.
- Experienced in giving professional presentations.

## Education

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- Mississippi State University – Expected graduation May 2018
  - Computer Engineering major with a major GPA of 3.7 and a cumulative GPA of 3.4.

## Achievements/Awards

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### **Athletics**

- Elected president of the Men's Club Volleyball team at Mississippi State from 2015-2016.
- Regularly participate in local sand volleyball leagues and tournaments.

### **Extra-Curricular**

- Awarded first place as a team in the nation-wide Northrop Grumman Summer Intern Challenge.
  - Served as the development team leader for a team with fifteen members.
- Achieved the PADI Advanced Openwater Scuba Diver certification and have logged over two-hundred dives.