Everett P. Berry

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OBJECTIVE

To obtain a *Software Engineering Internship in Summer 2016* prior to starting a Masters in Computer Engineering

EDUCATION

- **Purdue University** – B.S. in Computer Engineering (GPA: 3.31) **Expected May 2016**
  - Software courses include Compilers, Operating Systems, OOP, Computer Networks, and Security
  - Hardware labs include Computer Architecture, ASIC Design, and Microprocessor Interfacing

WORK EXPERIENCE

- **Qualcomm** – Software Engineering Intern **Summer 2015**
  - Built a suite of web tools for profiling camera subsystem performance on Android phones
  - Modified the Android build system for a different architecture and developed a kernel module as part of the pre silicon process for a new chipset
- **Hewlett Packard** – Software Engineering Intern **Summer 2014**
  - Implemented a novel encoding algorithm for more efficiently storing key-value pairs on disk
  - Wrote a parser for loading HP ArcSight CEF files into the Vertica Analytic Database
- **Purdue University** – Teaching Assistant **Jan 2014 – May 2014**
  - Led a lab section for CS 158, an introductory course in C for College of Science students

PROJECTS

- **Fauna Finder** – https://github.com/EverettBerry/FaunaFinder **Feb 2016**
  - Web app to explore the locations and images of million animals from all over the world
- **Bitcoin Miner** – https://github.com/dawood0/BitcoinMinerFPGA **Dec 2014**
  - Custom bitcoin miner written in Verilog HDL and synthesized on an Intel FPGA development board
- **Flappy Bits –** https://github.com/woodworthkyle/MiniProject **April 2014**
  - "Real life Flappy Bird" where users wore gloves with accelerometers and flapped their arms to control the bird through a wireless connection to a base station that displayed game progress on a LCD

RESEARCH

- **High Efficiency Low Power Systems Lab** – Research Assistant **Aug 2013 – Present**
  - Contributed to CAM2, a distributed system for analyzing thousands of internet connected cameras
  - Created a web client for CAM2 so that researchers may browse 80,000 publicly available cameras, select a subset of them, and execute large scale image processing programs using the cameras' data
  - 4 conference publications, one as first author, including *Using Global Camera Networks to Create Multimedia Content* and *A System for Large Scale Analysis of Distributed Cameras*
- **Dr. Steven Collicott, Prof. Aeronautics** – Lab Assistant **Aug 2012 – Jan 2013**
  - Collected and processed digital images from experiments on the International Space Station and used MATLAB to detect edge lengths and quantify capillary flow of fluids in zero gravity

SKILLS

Languages	Web Development	Tools
C, C++, Python, Javascript	HTML, CSS, Django, React	Linux, Docker, Git, tmux, Vim

LEADERSHIP

- **Purdue Student Government** – Chief of Staff **April 2015 – Present**
  - Organizing and overseeing the day to day operations of an executive branch of 50 students
- **Sigma Tau Gama Fraternity** – Judicial Board and Scholarship Chair **Jan 2014 – Dec 2014**