|  |  |  |
| --- | --- | --- |
|  | Zachary K. Miller |  |
|  | Erie, PA |  |
|  |  |  |

**OBJECTIVE**

Continue a Computer Engineering career while staffing an employer with a reliable, ambitious employee

**EDUCATION**

|  |  |
| --- | --- |
| **Penn State Erie, the Behrend College** | **Aug. 2014 - May 2017** |
| Bachelor of Science in Computer Engineering | 3.82 GPA |
| **Butler County Community College** | **Aug. 2013 - May 2014** |
| Courses in Computer Engineering | 3.765 GPA |

**RELEVANT EXPERIENCE**

|  |  |  |
| --- | --- | --- |
| **C** | **VHDL** | **AutoIt** |
| **Qt Creator** | **Assembly** | **Python** |
| **C++/Java (OOP)** | **Magic: VLSI for UNIX** | **Node.js (Express)** |

* Worked with two classmates and sponsor in creating a system utilizing a 20MSPS ADC and a Zync SoC to process data with an FPGA (configured with Vivado), then rapidly pass the information to a user interface (created using Qt/Qwt)
* Collaborated with a team of four to create an Express website, that used IBM Watson APIs to analyze social media posts to construct a summarized report, while storing the results with MySQL
* Completed numerous Embedded System labs proficiently utilizing a personally soldiered dev. board and Raspberry Pi; including an IR decoder, ultrasonic room scanner/mapper, and local interactive website server
* Used Assembly in MARS, a MIPS simulator, to create a low level framebuffer platforming game
* Developed higher aptitude for troubleshooting code and designing GUIs by developing a feature filled, music renaming Python program with GUI for personal use
* Constructed a game involving a FPGA board, PS2 keyboard and monitor using ISE Design Suite

**WORK EXPERIENCE**

|  |  |  |
| --- | --- | --- |
| **GE Transportation, Erie:** Engineering Intern | **May 2016 – Present** |  |

* Quickly adapted to using a new language, AutoIt, to design programs with straightforward GUIs to automate redundancies for myself and other workers in multiple departments
* Collaborated on a Six Sigma Project concerning Locomotive Modernization Material Efficiency
* Summarized and reported daily updates for plant/international meetings with Excel using data obtained from databases; Oracle, CAS, Drawing Retrieval
* Extracted information for multiple levels of material for engineering Bill of Material Structure

|  |  |  |
| --- | --- | --- |
| **Eat’n Park Restaurants: (724) 282-7674:** Cook | **May 2015 - Sep. 2015** |  |
| **Ponderosa Steakhouse: (724) 285-6525:** Server, Cook, Host, Dishwasher | **Aug. 2011- Dec. 2014** |  |

* Strengthened communication skills working with a team to complete responsibilities more proficiently
* Grew accustomed to completing tasks in timely manner in a fast-paced environment
* Refined instructional skills by training new hires, passing on efficient methods of organization

**EXTRA-CURRICULAR ACTIVITIES**

|  |  |
| --- | --- |
| **GE: Relay for Life Team,** Co-Captain | **Jun. 2016 – Aug. 2016** |
| **Tau Beta Pi Engineering Honors Society,** Secretary | **Apr. 2016 – May 2017** |
| **Institute of Electrical and Electronics Engineers,** Secretary | **Aug. 2015 – May 2017** |