

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

Bachelor of Science in Computer Engineering

Aug. 2014 - May 2017

3.82 GPA

Butler County Community College

Courses in Computer Engineering

Aug. 2013 - May 2014

3.765 GPA

RELEVANT EXPERIENCE

C

Qt Creator

C++/Java (OOP)

VHDL

Assembly

Magic: VLSI for UNIX

AutoIt

Python

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