**MENG L. KRY**

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**EDUCATION**

**The Pennsylvania State University**, ***College of Engineering*** University Park, PA

**Bachelor of Science: Computer Engineering**, December 2017

**Minor: Information Sciences and Technology (IST)**, December 2017

**RELEVANT SKILLS**

*Programming Languages:* C, C++, Java, Python, Verilog, MIPS Assembly, HTML, CSS, SQL Database Design, PHP

*OS:* UNIX, OSX, and Windows

*Applications:* NetBeans, Android Studio, Visual Studio, ModelSim, Multisim, Quartus, Visio, SQL Server

Management Studio, Wireshark, R, Github

**RELEVANT COURSES**

Digital System and Design, Circuits and Devices, Electronic Circuit Design I, Computer Organization and Design, Intermediate Programming, Object Oriented Programming, UNIX System Programming in C, Computer Networking, Data Structures and Algorithms, SQL Database Design, Big Data Analytics, Operating Systems, Microprocessors and Embedded Systems, Continuous Time Linear Systems

**WORK EXPERIENCE**

**Penn State University, Department of Computer Science and Engineering**

***Communication Networks Course Grader*** State College, PA 1/11/2016 – Present

* Grades course’s assignments relating to topics such as Open System Interconnection model, TCP, Datagram, signal design, network interface, data transmission, and multiplexing.

**Penn State University Integrated Circuits and Systems Laboratory, Assistive Technology Research**

***Android Application Developer*** State College, PA 08/23/2016 – 12/6/2016

* Utilized Android Bluetooth APIs to implemented a TCP and a user-friendly Android application that allows Bluetooth connection between an Android device and a Bluetooth eyelid scanner for data transmission and data processing.

**Penn State, Information Technology Services (ITS)**

***Android Application Developer Intern*** State College, PA 9/25/2015 – 04/01/2016

* Utilized Google Map APIs, Java and Android Studio to designed and implemented a prototype mobile Android application that allows the user to locates and navigates to all the computer labs on campus.

**Penn State University Park Police**

***Auxiliary Officer*** State College, PA 09/10/2016 – 12/16/2016

* Assisted University Police with security and traffic control for Penn State events.

**United States Army National Guard**

***Human Resource Specialist***  Lewistown, PA 2/02/2015 - Present

* Administers postal and personnel accountability. Additionally, responsible for the readiness, health, and welfare of all Soldiers assigned to the unit.

**TECHNICAL PROJECTS**

**Algorithms and Data Structures Programs** Fall 2016

* Utilized data structures, and algorithms to solve problems such as Merge Sort, Heap Sort, Connected Components, Breadth-First Search, Bellman-Ford, 2-Satisfiability, and Hamiltonian Path in DAG.

**3D Printer Device Driver and Network**  Spring 2015

* Utilized socket programming and TCP to designed and implemented a device driver and networking in C for a Virtual 3D printer. Implemented a 3D file format in the binary file I/O on a UNIX system.

**Big Data Mining and Analytic on High Blood Pressure** Fall 2016

* Used big data from Hindawi’s research to predict High Blood Pressure and its factors for female and male.
* Utilized R data mining program to performed data cleaning, data exploration, data visualization, data analysis using linear regression, and data modeling using a decision tree.

**Website and Database design** Spring 2016

* Designed and built a website and a database in HTML, PHP, CSS, and SQL that allow users to register, create events, and rate events.

**MIPS Datapath In-class Project** Spring 2015

* Designed, implemented, simulated, and debugged a single-cycle version of the Reduced Instruction Set Computing (RISC) processor in Verilog.
* Utilized the SPIM MIPS assembler, simulator, and debugger to test MIPS assembly language code and digital logic design.

**Op-Amp Speaker In-class Project** Fall 2014

* Designed, simulated, and built a complete Op-amp speaker circuit.
* Tested the Op-amp circuit with various tools such as a Function Generator, a Digital and Analog Multimeter, an Oscilloscope, and a Direct Current (DC) Power Supply.

**ACHIEVEMENTS/ACTIVITIES**

Penn State Abington Honor Program 2012 – 2014

Department Of The Army Certificate Of Achievement August 2016