**­­­Elise M. McEllhiney**



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**EDUCATION:**

**Bachelor of Science in Computer Engineering** *- Graduated May 2016*

*The University of Kansas, Lawrence, Kansas*

* Graduated with Honors with Distinction, Cumulative GPA: 3.9
* Completed all requirements of University Honors Program

**Master of Science in Computer Engineering** – *Anticipated Fall 2017*

*The University of Kansas, Lawrence, Kansas*

**Bachelor of Arts in East Asian Studies with Japanese Language Concentration** *– Anticipated Fall 2016*

*The University of Kansas, Lawrence, Kansas*

**Study Abroad** *– 2013-2014*

*J.F. Obirin University, Machida, Japan*

* Academic Japanese immersion in a college setting at J.F. Obirin University
* Courses taken: **日本語（コア、発音、漢字、文法）文化、美術史と文学の授業を受けました。**
* Lived with a Japanese host family

**PROFESSIONAL EXPERIENCE:**

**University of Kansas**

*Undergraduate Research Assistant, Fall 2015- Fall 2016*

* Implemented CUDA solution to run real time FFT processing from FPGA based radar to improve processing speed by 20x
* Integrated CUDA into ROS environment to facilitate collision detection functionality for the auto-pilot of a fixed wing drone

*Graduate Teaching Assistant for EECS 541 (Senior Design), Fall 2016-Present*

* Implemented CUDA solution to run real time FFT processing from FPGA based radar to improve process

**Bentley Systems Incorporated, Olathe, Kansas**

*Software Engineering Intern, Summer 2016*

* Worked in a SCRUM developer team adding features on Bentley’s new CONNECT website

**Garmin, Olathe, Kansas**

*Software Engineering Intern, Summer 2015*

* Analyzed and improved Dynamic Fuel Stops feature in the Zumo 590 product
* Performed bug fixes for malfunctioning code
* Added further functionality to the existing code

**English Teacher, Machida, Japan**

*During Study Abroad**2013-2014*

* Provided English instruction for a group of twelve Japanese engineers
* Assisted with children’s English classes

**Honeywell International Inc., Kansas City, Missouri**

*Engineering Intern, Summer 2013*

* Designed and implemented software for tracking locations of lab equipment
* Created user interface for component tracking program
* Department of Energy Q Security Clearance

**Grundfos Pumps Corporation, Olathe, Kansas**

*Engineering Intern, Summer 2012*

* Designed and implemented software for destructive testing to determine the service lifetime of pumps
* Modified and tested circuit boards, creating components when necessary
* Assisted mechanical engineering section with parts prototyping using CNC mill and 3D printing

**SKILLS:**

**Computer**

* Coding languages (in order of most comfortable to least comfortable)
* C++, C, CUDA, Python, Haskell, C#, JavaScript, Java, SQL Server, Scheme, and Matlab Programming
* SolidWorks 3D Modeling, CATIA 3D Modeling

**Other**

* Fluent in Japanese
* Soldering, CNC Mill, 3D Printer, and Engine Lathe

**ACTIVITIES:**

ACM, IEEE, Programming Club, KU Street Performance Club

**桜風エイサー部** (Traditional Japanese Drum and Dance club), **吹奏楽部** (Japanese Band),

**一期一会サークル** (International Exchange Student Group), **英会話サークル** (English Conversation Circle), Japanese Student Association, Anime Club

Played lead Tenor Saxophone in Kansas City Youth Jazz Band *2006-2011*

Played Tenor Saxophone in KU Combo *2012-2013*

**HONORS:**

University of Kansas: Watkins-Burger Scholarship, Garmin Scholarship, Dean’s Scholarship, Dean’s List

Golden Key, National Honors Society, Kansas American Legion Girls State (All State Lawyer)

Kansas State University: Putnam Scholarship, Dean’s Scholarship