

# Elise M. McElhiney

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## EDUCATION

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### University of Kansas, Lawrence, Kansas

#### *Master of Science in Computer Engineering*

◦ GPA: 4.0

*Expected May 2020*

#### *Bachelor of Science in Computer Engineering*

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

*Graduated May 2016*

#### *Bachelor of Arts in East Asian Studies with Japanese Language Concentration*

*Graduated December 2016*

### 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

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### Cox Automotive, Mission, Kansas

*Software Engineer, Summer 2017-Present*

- Utilized .NET Core and Amazon Web Services (AWS) to create a common customer solution supporting multiple business units
- Used .NET Framework to create an application that calculates equity for leased vehicles
- Utilized ReactJS to develop a new reusable feature for organizing customer leads for clients
- Worked in a SCRUM team to iteratively develop product

### University of Kansas

*Graduate Teaching Assistant for EECS 541 (Senior Design), Fall 2016-Spring 2018*

- Designed and taught labs that prepared students to propose and implement senior design projects
- Assisted seniors majoring in computer engineering with completing capstone projects

### University of Kansas

*Undergraduate Research Assistant, Fall 2015-Fall 2016*

- Implemented CUDA to run real time FFT and CFAR processing for 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

### Bentley Systems Incorporated, Kansas City, Missouri

*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*

- Refactored Dynamic Fuel Stops feature in the Zumo 590 product
- Performed bug fixes and added further functionality to 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 class

### 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, Winter 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

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### Computer

- C#, JavaScript, Python, C++, C, CUDA, Haskell, Java, SQL Server, Scheme(Racket), and Matlab Programming
- SolidWorks 3D Modeling, CATIA 3D Modeling

### Other

- Fluent in Japanese
- Soldering, CNC Milling, 3D Printer, and Engine Lathe

## ACTIVITIES

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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

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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