Elise M. McEllhiney

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SKILLS

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

PROFESSIONAL EXPERIENCE

Amusement Connect, Kansas City, Missouri　　*Software Engineer, August 2024-January 2025*
- Utilized .NET Core and Microsoft Azure to upgrade and improve a web application originally written in .NET Framework

The Redwood Group, Mission, Kansas　　*Software Engineer, July 2021-January 2023*
- Utilized .NET Core and Microsoft Azure to maintain a derivative quoting web application

Cox Automotive, Mission, Kansas　　*Software Engineer, Summer 2017-June 2021*
- 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 SCRUM teams to iteratively develop products

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

EDUCATION

University of Kansas, Lawrence, Kansas

Master of Science in Computer Engineering　　*Expected May 2020*
- GPA: 4.0

Bachelor of Science in Computer Engineering　　*Graduated May 2016*
- Graduated with Honors with Distinction, Cumulative GPA: 3.9
- Completed all requirements of University Honors Program

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、🄵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

ACTIVITIES

ACM, IEEE, Programming Club, KU Street Performance Club,
🄵風エイサ🄵部 (Traditional Japanese Drum and Dance club), 吹奏🄵部 (Japanese Band),
一期一会サ🄵クル (International Exchange Student Group), 英会話サ🄵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