

EDUCATION

Iowa State University Ames, IA

M.E. in Computer Engineering
GPA: 3.50/4.00

Expected May 2024

B.S. in Computer Engineering
GPA: 3.59/4.00

Graduated May 2023

Bartlett High School Bartlett, IL

GPA: 3.843/4.000

Graduated May 2019

EXPERIENCE

Iowa State University Teaching Assistant

Jan. 2023 - Present

- Collaborated with an instructional team to assess and provide feedback for students.
- Improved upon previous work to provide more comprehensive instructions and help.
- Engaged with students to curate a productive work environment.

Prism Java Plugin Developer, Community Moderator

Oct. 2016 - Jan. 2020

- Developed and modified Java plugins to increase functionality and efficiency.
- Collaborated with a team to moderate a community to provide a safe environment.
- Maximized efficiency by dividing up tasks amongst staff members.

PROJECTS

homebridge-dyson-bp01 TypeScript

Sep. 2022 - Jul. 2023

A Homebridge plugin to add a Dyson BP01 to HomeKit using a BroadLink RM.

Simple Graphics Processor VHDL, C

Jan. 2022 - Feb. 2023

A custom GPU architecture paired with driver software and OpenGL test programs.

MatrixDisplay Python, HTML, CSS, JavaScript

Dec. 2021 - Apr. 2023

A program to control a Raspberry Pi with a Unicorn HAT from a web interface.

CyBot C

Jan. 2021 - May 2021

Embedded software used to make an iRobot Roomba navigate semi-autonomously.

SKILLS

Languages

TypeScript, Python, VHDL, JavaScript, CSS, HTML, Kotlin, C, Java

Tools

Docker, Vivado, VS Code, Git, JetBrains IDEs

ACTIVITIES

Marching Bands and Concert Ensembles

Aug. 2011 - Present

- Collaborated as an ensemble to rehearse for and perform public performances.
- Practiced as an individual to increase personal instrumentalist and marching abilities.
- Worked with section in rehearsals to prepare and improve for performances.

German American Partner Program

Jun. 2016 - Jul. 2016

- Visited Munich and attended Gymnasium München Moosach over a two-week period.
- Enhanced German speaking and listening skills.
- Gained experience adapting to a new environment in a quick manner.