

EDUCATION

Iowa State University Ames, IA	
M.E. in Computer Engineering	Expected May 2024
GPA: 3.60/4.00	
B.S. in Computer Engineering	Expected May 2023
GPA: 3.60/4.00	
Bartlett High School Bartlett, IL	Graduated May 2019
GPA: 3.843/4.000	

EXPERIENCE

Iowa State University Teaching Assistant	Jan. 2023 - Present
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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 - Present
A Homebridge plugin to add a Dyson BP01 to HomeKit using a BroadLink RM.	
Simple Graphics Processor VHDL, C	Jan. 2022 - Present
A custom GPU architecture paired with driver software and OpenGL test programs.	
MatrixDisplay Python, HTML, CSS, JavaScript	Dec. 2021 - Present
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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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.	