

Eric Udlis

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Education

University of Wisconsin - Madison

Madison, WI

B.S. IN COMPUTER ENGINEERING & B.S. IN COMPUTER SCIENCE

Expected December 2022

- **Current GPA:** 3.34
- **Relevant Courses:** Programming III, Embedded Programming and Organization, Discrete Mathematics, Signal Processing, Microprocessor Systems, Calculus III
- **Deans List:** Spring 2019, Spring 2020

Work Experience

Center for High Throughput Computing, University of Wisconsin Madison

Madison, WI

RESEARCH COMPUTING FACILITATION ASSISTANT

May 2020 - Present

- Develop programs using Python and Bash to filter user data, detect trends, and automate manual tasks
- Utilize Jupyter Notebook & Matplotlib to create reports on data trends
- Write and maintain documentation for tools & software products
- Collaborate with researchers to create user facing materials & optimize workflow

Fond du Lac Area United Way

Fond du Lac, WI

WEBSITE MANAGEMENT INTERN

January 2020 - Present

- Manage the Fond du Lac Area Volunteers Hub
- Maintain an online GetConnected volunteer management system
- Write custom HTML and CSS modules to keep website updated with latest information
- Communicate with volunteers and agency partners to create media for marketing and donation campaigns

OFFICE INTERN

May 2019 - Aug 2019

- Wrote internal documentation and external publications to promote local non-profits and volunteering
- Developed and maintained organization website and online volunteer portal
- Interacted with agency and corporate partners including delivering presentations and participated in radio interviews
- Windows Server 2016 maintenance including Active Directory Management and Samba Shares
- Performed hardware upgrades on company computers including hard drive, ram, and motherboard replacements

Moraine Park Technical College

Fond du Lac, WI

ROBOTICS CAMP INSTRUCTOR

Summer 2019

- Led daily classes for middle school students, teaching skills including engineering, teamwork, and programming.
- Created a curriculum, daily lesson plans, and activities for 10 different lessons
- Sourced robot kits and created own materials using 3D printing and laser cutting

Extra-Curricular Organization Involvement

Badgerloop (Hyperloop Team for SpaceX Competition)

Madison, WI

SOFTWARE TEAM LEAD

Sep 2018 - Present

- Led a team of 5-10 undergraduate developers through hosted workshops and manage projects including:
- **Pod Control Dashboard** A Node.js app that reads data from and sends commands to single board computers on the pod. Includes functionality to record testing data and export into MatLab, Python and Microsoft Excel
- **Hardware in the Loop Testing** Hardware in the Loop Testing Rig - A CI/CD pipeline that automatically deploys code to hardware and runs tests on them. Communicates with test equipment using custom written SCPI python drivers
- **Bill of Materials and Finance Management Web-App** A Node.js web-app that serves as the purchase requesting, approval, and ordering hub for around \$50,000 worth of purchases a year. Includes Slack work-space integration

Technical Skills & Awards

- **Computer Programming** - C, C++, Java, JavaScript/Node.js, Python, Bash, AutoDesk Inventor, Typescript, Web Development
- **Embedded Systems** - Linux, Raspberry Pi, Arduino, ARM MCUs, I2C and SPI Drivers
- **Awards** - Javascript HackerRank Certification (2020), Autodesk Inventor Certified User (2018), Microsoft Office Specialist (2017)