Harry J. Rosmann

Education

University of Wisconsin – Madison | Class of 2022

Degree: Bachelor of Science

Majors: Electrical Engineering, Computer Science

Awards & Honors:

William F. Vilas Scholarship (2018 – 2022)

The Vilas Scholarship is one of the highest honors UW-Madison bestows upon its students and is only awarded to the highest academic achieving undergraduate students.

Academic Excellence Scholarship (2018 – 2022)

Academic Excellence Scholarships (AES) are awarded to Wisconsin high school seniors who have the highest grade point average in each public and private high school throughout the State of Wisconsin.

Dean's List (7 Semesters)

Projects

OptoPlate-96 Redesign – Independent Study (Course)   12/2021 – Present
- Responsible for redesigning the optoPlate-96 (Bugaj Lab) to make it moveable by Tecan Fluent.

Prosthetic Hand – Medical Instrumentation (Course)   Fall, 2021
- Built analog circuit to filter and amplify myographic signals in the forearm.
- Processed incoming signals with microcontroller to open or close prosthetic hand with a push-pull solenoid.

Tennis Program – Les Moise, Inc.   01/2021 - Present
- Developed a Universal Windows Platform application to track customer information and work orders.
- Hosted RESTful API and database on Azure to ensure real-time updates for two locations.

Allergen Alert – Software Engineering (Course)   Fall, 2020
- Worked on a small team to design a cross-platform mobile application using the agile process.
- Created pages for the application UI (React Native) and developed backend services (C#/Entity Framework).
- Implemented unit tests to achieve code coverage of 96% for the API and 80% for the UI components.

Work Experience

Standard Imaging, Inc. – Software Intern   05/2021 – 09/2021

Middleton, WI
- Worked on agile team to develop software for analysis of radiation therapy quality assurance measurements.
- Processed and formatted raw data and created UI components to export files to proprietary radiotherapy systems.
- Integrated licensing components into existing software applications.

UW Athletics (Men's Tennis Team) – Racquet Stringer   02/2020 – Present

Technical Skills

Programming Languages: C#, C, Java, Python, SQL, HTML/CSS, React Native
Software & Tools: MATLAB, LTSpice, Visual Studio, VSCode, Azure, Git, Altium Designer, Team Foundation Server
Operating Systems: Unix, Windows

Community Service

Feed the Change Inc. – Treasurer   01/2020 – 12/2021
- Raised $500+ through organized fundraising events and online campaigns in Fall, 2021.
- Updated accounting spreadsheets, issuing receipts, and filling out tax forms for 501(c)(3) non-profit organization.
- Purchased food for weekly meal preparations and distributed to homeless shelters and individuals in Madison.
- Collected and distributed clothing donations to shelters and individuals in Madison.

Extracurricular Activities

UW Club Tennis (White)
Member   09/2018 – Present
Tournament Coordinator   05/2021 – Present
- Responsible for organizing 16-team memorial tournament to fund Kimberly Graham Scholarship.
- Responsible for working with local business to collect raffle prize donations.
- Organized travel, lodging, and registration for weekly tournaments across the Midwest.

Hoofers Alpine Ski Team – Member   09/2018 – Present