

ALEXIS ROBERTS

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EDUCATION

University of Michigan

Bachelor of Science in Engineering in Computer Engineering, Minor in Business

GPA: 3.30 / 4.00

Ann Arbor, MI

December 2020

TECHNICAL SKILLS

Coding Languages: C++, C, MATLAB, HTML, C#, Java, Python, Verilog, AngularJS, JavaScript

Electrical Equipment: Oscilloscope, Multimeter, Power Supplies, Soldering Iron, Function Generator, ESD Simulator

WORK EXPERIENCE

Stryker

Software Engineering R&D Intern

Kalamazoo, MI

May 2019 – August 2019

- Assisted an embedded software team in the development of 2 display boards for Stryker's new med-surge bed series
- Configured a Linux development environment to ensure successful migration from Windows to Linux for entire bed
- Verified that the boards' Linux Board Support Packages worked flawlessly by executing an Acceptance Testing Plan
- Implemented a C++ project with remote debugging capabilities to test the Linux SocketCAN drivers for both boards
- Developed a stability test for both boards that correctly received 248,102,712 messages over ~68 hours from the PC

Stryker

Electrical Engineering R&D Intern

Kalamazoo, MI

May 2018 – July 2018

- Collaborated with R&D engineers to gain proficiency in techniques such as soldering, product development, and C
- Discovered the root cause of a line-down situation by creating and conducting multiple electrical tests on a battery
- Improved software installation on a bed by refining a manual process to be fully automatic using Windows CE and C
- Fabricated an electrical test fixture that will aid in assessing the footboard of Stryker's InTouch Critical Care Bed
- Conducted root cause analyses to investigate customer-issued problems for two of Stryker's Patient Care products

Spectrum Health System

Web/Mobile Development Intern

Grand Rapids, MI

May 2017 – July 2017

- Pushed C# code out into production for a website called "Find a Doctor" that allows online scheduling for patients
- Managed a project team through negotiating with stakeholders and coordinating communication among 3 other teams
- Produced a wait-time dashboard with seven other interns that will be tested and launched at Spectrum Health hospitals

EXTRA-CURRICULAR ACTIVITIES

Student-Athlete Advisory Committee

Member

Ann Arbor, MI

September 2018 – May 2020

- Represented the Michigan Dance Team by improving the academic and athletic experience of all student-athletes, as well as the surrounding community, through organizing and participating in athletic events and campus activities

University of Michigan Dance Team

Student-Athlete

Ann Arbor, MI

August 2016 – May 2020

- Performed and participated in many athletic, collegiate, leadership, and community events throughout each school year
- Competed and placed in the top 10 annually at the Universal Dance Association's College Dance Team Championship
- Facilitated dance clinics for 100+ children in order to prepare for performances at basketball games three hours later

VOLUNTEERISM

Athletes for Community Transformation

Volunteer

Ann Arbor, MI

October 2017 – March 2018

- Offered guidance and established a dependable, positive relationship for 10-20 children ages 6-14 through planned, educational activities every other week at a local community center

AWARDS

- NCWIT's National Award for Aspirations in Computing

March 2016

- Naval Science Award for the Evaluation of the Traveling Salesman Problem

February 2016