JULIET KERN

UW Biomedical Engineering Student

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SUMMARY OF QUALIFICATIONS

***Development* |** React, Angular, NodeJS, Bootstrap, HTML, CSS, JS, MySQL, C#, C++, Matlab

***Tools* |** Visual Studio Code, Git

***UI/UX & Design* |** Photoshop, AdobeXD, Axure, Figma

***CAD* |** Solidworks, Rapid Prototyping, 3D Printing

***Product Dev* |** Agile and Iterative design, User research, User testing

EDUCATION

UNIVERSITY OF WATERLOO
Sept 2019 - Present

BASc For Biomedical Engineering

ST. ALOYSIUS GONZAGA
2015 - 2019

***Science Award* |** Top graduating student in Science (extracurricular involvement)

INTERESTS

Oil Painting, Photography, Old Videography and VHS, Outdoors and Adventure

WORK EXPERIENCE

DESIGNER & FRONT END DEVELOPER
The Home Depot | May 2020 - Aug. 2020

- *Canada Technology* | Designed and developed a webpage for Home Depot's internal employee website for the IT department. The page displayed an informational map of the head office, prototyped with **Axure** and **Photoshop,** and developed in **Angular** with an integrated Google Maps **API.**

- *Pro Store Walk Portal* | Worked alongside a team to develop a **heat map** of the Home Depot store departments in **Angular** to **visualize** trends in sales and pinpoint opportunities for company growth. Deployed across all of the **182** Canadian Home Depot stores.

LAB ASSISTANT
York University | July 2018 - Aug. 2018

- Collected electromyography data using electrodes, **processed** the information using **Matlab** and submitted **technical reports** to the bioelectrical engineering professor for his research on smart clothing.

RELEVANT PROJECTS

MEMORYMAPS
Hackathon project | Jan. 2020

- Successfully **developed** the **front-end** of a website using **HTML**, **CSS**, and Google Cloud's **Geolocation API** that focuses on preventing people with neurological disorders such as Dementia or Alzheimer's from getting lost.

- Collaborated with team members under **high-pressure** and **short time** constraint to complete the project **efficiently**.

BIOMECHATRONICS DESIGN TEAM LEAD
University of Waterloo | Jan. 2020 – Apr. 2020

- Led a team of 12 to develop a sustainable powered arm prosthetic for a double amputee in El Salvador in need of device.

- Files modified in **Solidworks**, **3D Printed** and varnished for comfort.

- Prosthetic is powered by rechargeable batteries, controlled by a programmed **Arduino** and connected to a linear actuator to allow for the gripping and extension of the fingers.

COMMUNITY INVOLVEMENT

STEM 50/50 PRESIDENT AND FOUNDER
St. Aloysius Gonzaga | 2018 - 2019

Provided students with fun learning opportunities, a chance to explore their interests and a platform to advocate for a more **diverse future** in STEM careers, with **over 100 applications** after our first meeting.