

Braden Mund

Objective

Enthusiastic student seeking a new graduate software engineering position where I can contribute my technical experience, creativity and graphics software development skills while gaining professional software design experience in an innovative industry.

Education

BSc in Software Engineering

Graduated April 2016 - with distinction

Schulich School of Engineering

University of Calgary, AB, Canada

GPA: 3.8/4.0

Awarded 1st place in group design project

Skills

- Adaptable to programming languages and development environments
- Experience with software programming (C, C++, Python, Java) and embedded development as exhibited by contributions as a member of the Garmin Varia Bike Lights team
- Experience with software development tools and tool chains (Git, JIRA, WAF, cmake, make, gtest)
- Experience with basic computer graphics principles and tools (OpenGL, Shader Pipeline, GLSL) demonstrated by my undergraduate research in computer graphics
- Possess excellent organizational and leadership skills demonstrated by an ability to balance a council leadership position, while maintaining academic proficiency
- Possess an aptitude for problem solving demonstrated by solutions to challenges encountered in projects such as group design project, Garmin Varia Bike Lights project, and graphics research
- Strengths in working both independently and in a team environment

Work Experience

Graphics Jungle University of Calgary, Alberta

May/2016 – Oct/2016

Undergraduate Researcher

- Reviewed literature relating to subdivision surfaces and multiresolution techniques
- Implemented a multiresolution subdivision surface application demonstrating understanding of reviewed literature
- Coordinated communication with industry partners to ensure our research projects provide synergistic value

Garmin Cochrane (Dynastream Innovation) Cochrane, Alberta

May/2014 – Aug/2015

Software Engineering Intern – Personal Monitoring Team

- Designed, developed and tested software for embedded devices ensuring current and future products meet Garmin's standards of excellence
- Designed and implemented manufacturing test procedures for ensuring adequate test coverage of products, achieving the Garmin standard of quality and reliability that consumers expect
- Documented processes and design, ensuring valuable information is accessible to Garmin colleagues
- Participated in product creation, providing feedback and technical abilities to bring new products to growing markets

Clinical Movement Assessment Laboratory University of Calgary, Alberta

May/2013 – Aug/2013

Summer Research Student

- Designed and implemented hardware and software solutions for dual-fluoroscopy equipment, allowing for accurate height determination of objects viewed, which was not available before
- Presented dual-fluoroscopy research at the Biomedical Engineering Undergraduate Summer Research Symposium
- Published research abstract in the “Journal of Undergraduate Research in Alberta”
- Co-authored a publication for “IEEE Transactions on Medical Imaging” journal
- Developed understanding of motion analysis by processing motion analysis equipment calibration data

Volunteer Experience**Engenuics – MPG** Calgary, Alberta

Oct/2014 – April/2015

Classroom student support

- Helped students with embedded development tasks by providing enlightenment on course content
- Provided lecture assistance for ANT wireless lecture
- Provided students with soldering assistance providing tips and tricks learned from industry experience

University of Calgary Biomedical Student Society Calgary, Alberta

Oct/2012 – April/2014

Vice President of Communications

- Provide software solutions to enhance communication
- Maintain webpage, Facebook, and event calendar
- Inform students of upcoming events
- Coordinate events with the other engineering councils
- Participate in academic meetings, as well as help facilitate group events

2nd Year Representative

- Provided class with announcements on upcoming events
- Participated in academic meetings, as well as helped facilitate group events
- Engaged classmates in team building activities

Fundraisers Calgary, Alberta

Sept/2005 – Present

CIBC Run for the Cure Participant, Terry Fox Run Participant

- Collected pledges and participated in runs

Interests

- Computer graphics (rendering in particular)
- Video game engines
- Unit testing and software architecture
- Build Systems
- Embedded Systems