

SAMUEL MUSTAPHA

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PROFILE

Bachelor of Science in Mechanical Engineering graduate seeking full-time entry/mentorship opportunities in the mechanical engineering industry in order to work towards a professional engineering designation. Throughout my education, it has become apparent that I am adept at the understanding and application of logical/mathematical reasoning to solve problems. I am a dependable, self-motivated, success driven individual who gains satisfaction from successfully analyzing and solving problems. An adept team player with excellent interpersonal and communication skills.

EDUCATION

University of New Brunswick, Fredericton, NB 2014 - 2016
Bachelor of Applied Science, Mechanical Engineering
CGPA 3.1

University of Prince Edward Island, Charlottetown, PE 2012 - 2014
Diploma, Mechanical Engineering

RELEVANT COURSEWORK

- Engineering (Capstone) Design (ME4860)
- Sustainable Energy Systems Design (ME4424)
- Mechanical Vibrations (ME4613)
- Managing Eng and IT Projects (TME3313)

RELEVANT EXPERIENCE

Bill Wallace 2015 - 2016
Mechanical Engineering Student Consultant

- Made use of engineering knowledge to design and partially construct a human powered hand actuated heavy resistance vehicle to help users get in resistance training while commuting.
- Team leader responsible for communication between all stakeholders, including client, formatting final documents, and major analytical analysis of the design.

Snow Melt Project Fall 2015
Project Manager

- Worked as the project manager of a multidisciplinary team which completed the prototype of a self-regulating snow melt device.
- Made use of project management tools including Microsoft project to ensure a relatively smooth progress.
- Ensured a peaceful interface between team members by serving as an intermediary between disciplines and personalities.

Solar Community Fall 2015
Engineering Student Consultant

- Designed a community to run on 60% solar hot water and 90% solar heat making use of solar thermal technology.
- Made use of heat transfer and thermodynamics concepts to design different systems of the communities.
- The community was designed to the R-2000 standard and the tools used included Microsoft office and AutoCAD.

Magine Snow Boards Winter 2014
Engineering Student Consultant

- Redesigned and built a custom working prototype of a device for attaching sidewalls to handmade snowboards, a crucial step in building snowboards.
- Tasks included ideation, analysis, parts sourcing, and attending team meetings.
- The device is implemented at the end of the project.

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RELEVANT SKILLS

- Personal: Adaptable, dependable, hardworking, broad-minded, confident, capable, independent.
- Transferable: Communication, logical/Design Process, analysis, organized, precise, follow instruction.
- Technical: C++, AutoCAD, Autodesk Inventor, MATLAB, Solid Edge, Microsoft Project, Microsoft Windows and Office.

WORK HISTORY

Canadian Tire Cooperation, Charlottetown, PE Summer 2015, August 2016 - Present
Sports Associate (part-time with full-time hours)

- Self-directed daily duties involving making decisions and taking actions to prepare the department for store opening and closing, as well as providing a conducive environment for customer relations.
- Carried out projects as assigned by the department manager, inspected department, restocked and organized displays according to daily demands while greeting and assisting customers with their visits by giving directions and helping with decision making.
- Consistently finished projects as assigned, received appreciation from numerous customers and recognized for being quick, energetic and reliable.

T & J Construction, Charlottetown, PE July 2016 – August 2016
Construction worker

- Duties include every process required for the construction of residential properties including the transcription of dimensions from drawing to the floor, the use of hand and machine tools to process wood for construction.
- Working with subcontractors to ensure smooth building process and keep the project on schedule.

UPEI, Charlottetown, PE Summer 2013, 2014
Room Attendant (full-time)

- Routinely worked in varying teams and sometimes independently to clean rooms in a timely fashion allowing for the distribution of rooms to customers as efficiently as possible.
- Working to achieve the highest possible quality of work while minimizing downtime of rooms by continually evaluating and improving cleaning processes.
- Commitment and dedication to work shown with consistency in quality of work and willingness to get the day's work done. Recognized for being hardworking and dependable.

UPEI Engineering Department, Charlottetown, PE Winter 2013, 2014
Teaching Assistant (part-time)

- Evaluated and graded program codes for an introductory course in C++, taking into account various possible solutions.
- Provided a feedback system which facilitated student learning.
- Assisted during lab sessions.

VOLUNTEER ACTIVITIES

Atlantic Engineering Competition January 2016

- Served as co-competition head.
- Responsible for the logistics and implementation of the innovative design competition, informing all participants and judges of competition format and rules.

Habitat for Humanity May 2012