Samantha Lowe

11232 12 Ave NW, Edmonton, AB T6J 6S4
780-885-4691
lowe.sami18@gmail.com
linkedin.com/in/samantha-lowe-8a3865204

PROFILE

I am a third-year undergraduate student studying engineering at the University of Ottawa and I am seeking a summer position in my field to grow and develop my professional engineering skills. I am double majoring in biomedical and mechanical engineering and received both the Rutherford scholarship in 2020 and the uOttawa entrance bursary. In the fall semester, I presented at the uOttawa's 10th design competition for our team's interactive screening design, placing first in our division. I am a well-rounded student known for y strength in communication skills in report writing and data analysis. As a student-athlete, I trained 10 hours weekly as well as engaged in many school events, and learned to time-manage and still prioritize my studies to maintain a 6.4 GPA with a full course load.

SUMMARY OF QUALIFICATIONS

- Experience with Microsoft Word, Excel, Sharepoint, and Powerpoint
- Communication in report writing and research analysis
- Proficient in C language and Python, familiar with AutoCad, Star CCM ++, Revit and Solidworks
- Fluent in English, beginner in French
- Experience with group work and project design

EDUCATION

Bachelor of Applied Science Biomedical Mechanical Engineering 2020 - present
University of Ottawa, Ontario

- First place at uOttawa's 10th edition design day 2021
- Selected by the Engineering Student Societies Council of Ontario to attend 2020 AGM
- Project and design-orientated classes related to biomedical machinery

SKILLS AND ABILITIES

Research and analytical skills

- Researched for genetic modification based on Pancreatitis and HIV
- Collected and analyzed information to formulate a qualitative technical research report on introduction to genetic engineering at an inter-personalized level
- Researched and carried out lab testing on the environmental effects of e-cigarette liquid from seed germination trials

Projects:

- Designed, printed, and assembled a gear and a rigid bar with the help of Solid works and Cura
- Programmed code on Matlab in order to control the movement and velocity of the DC motor
- Constructed a system consisting of a DC motor linked to a rack and pinion system

- 3D modeled with Solidworks, and Autocad to design a training device for fencing athletes
- Created drafts based on gears, magnetics, and mechanical tracks
- Collaborated with a team to ensure workflow continued at a smooth and organized pattern

- Worked with Ross Video to create an interactive interface for a live scoreboard screening at TD place
- Delivered presentations on behalf of the assigned team for uOttawa's Design Day competition
- Communicated and received feedback from a client to improve the model over a course of 4 months

PROFESSIONAL EXPERIENCE

Recreation Skating Coach **January 2022 - present**
University of Ottawa, Ottawa, ON

- Overcame challenges regarding communication/language barriers in French and English
- Work with students and employees at the university

Figure Skating Coach **September 2018 - present**
Gloucester Skating Club, Ottawa, ON

- Coached, motivated, and instructed
- Train, write reports for, and manage individual skaters
- Interpreted different skills in a team environment

Educator **June 2022 - January 2023**
Lululemon, Ottawa, ON

- Inform on custom fabric material
- Prioritize diversity and inclusivity

Server/Hostess **June 2021 - September 2021**
Earls Kitchen + Bar, Edmonton AB

- Interactive with customer care
- Work effectively under busy conditions

TRAINING AND CERTIFICATIONS:

WHMIS training, University of Ottawa 2022
CanSkate Certified, Skate Canada, Edmonton AB 2018
Level 1 CASI, Canadian Association of Snowboard Instructors 2021
Standard First Aid and CPR Level C, Canadian Red Cross, Edmonton AB 2022

EXTRACURRICULAR ACTIVITIES

Canadian Society of Mechanical Mechanical Engineering:

- Marketing team of Canadian Society of Mechanical Engineering
- Make weekly reports regarding the interactions within the community
- Stay up to date with important concepts

Engineering Student Societies Council of Ontario

- Attended the 2020 AGM conference
- Spoke and connected with students in different disciplines of engineering

Miami Hackathon 2021

- Selected to work with engineers and top startups
- Placed in the Arena fitness house focusing on applications to health and wellness

uOttawa Rover team

- Teams work on specific parts of a modeled rover that must pass a specific fail-safe value
- 3D model, using the help of Solidworks, and print, using Cura, to assemble arms, wheels, and a body

REFERENCES

Vaughn Chipeur (coach)
780-340-6288
vchipeur@gmail.com

Shelley Douglas (coach)
780-554-5699
shelley@edgehead.ca

Antionette Hempell-bakker (coach)
780-237-0897

Beth White (AFSC president)
bkschultz.white@gmail.com