

COSMINA KRAMER

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HIGHLIGHTS OF QUALIFICATIONS

- Enrolled in level 5 of the 5-year Chemical Engineering & Bioengineering co-op program at McMaster University
- Strong analytical, technical and problem solving skills acquired through lab work, projects and previous work experiences
- Collaborative teamwork and leadership abilities demonstrated through technical undergraduate group projects
- Well-developed written and verbal communication skills developed through extracurricular involvements and work experiences

EXPERIENCE

Project Engineering Student

May 2017 – April 2018

ABC Group, Toronto ON

- Gained technical industry field experience in a tier 1 automotive manufacturing industry, designing, prototyping and developing washer & surge tanks into production level
- Analyzed and tested different materials to minimize cost while achieving optimal performance
- Developed, analyzed and implemented design changes to solve problems that arose during the design process of FEA & CAE simulations
- Produced parts according to specifications by fine tuning the processing parameters in blow and injection molding

Laboratory Curriculum Coordinator

Nov 2015 – Aug 2016

McMaster Learning Enrichment Advancement Program, Hamilton ON

- Developed and modified over 15 different chemistry, microbiology and dissection laboratory experiments for high school students to perform and stimulate their interests in STEM fields
- Effectively utilized interpersonal skills to collaborate with Health & Safety Representatives, Laboratory Technicians, and McMaster Professors to ensure the safety of the students while also upholding University standards
- Prepared labs, supervised students, and safely disposed of hazardous waste material
- Trained 45 high school students per session in lab techniques and assisted in their learning during experiments

EDUCATION

Bachelor of Engineering, Chemical Engineering & Bioengineering

Nov 2015 – Aug 2016

McMaster University, Hamilton ON

- Achieved a grade-point average of 3.7 on a 4.0 scale, across all completed semesters
- Awarded the **McMaster Entrance Scholarship** for high academic achievement in high school

TECHNICAL PROJECTS

Simulation, Modelling & Problem Solving Natural Gas to Olefins Plant Design

Achieved A+

- Designed a highly optimized large-scale factory simulation on Aspen Plus able to produce ethylene at a purity of 99.9%, minimizing emissions and maximizing the plant's profits
- Conducted a life cycle impact analysis to evaluate environmental impacts and compare them with processes that were currently being used
- Demonstrated leadership in a team of four by listening attentively, delegating tasks effectively and working together to reach the most efficient solutions for the project

Gas Pump & Card Handling Device

Achieved A

- Developed a device that would assist clients with rheumatoid arthritis in pumping gas and making payments on a credit card machine
- Worked in a team of 4 to simulate the device using Autodesk Inventor and develop a functioning prototype
- Depicted strong leadership and organization skills by coordinating team meetings and delegating tasks between group members

EXTRACURRICULAR ACTIVITIES

Women in Engineering | 2015 – Present McMaster University

- Personally mentored 5 first year engineering students to assist them with their transition to university
- Acted as an ambassador by representing chemical and bioengineering during first year orientation

Engineers without Borders | 2015 – Present McMaster University

- Worked with other undergraduate engineering students to organize events in Hamilton to engage the community in Global Development & Foreign Policy

Forward | 2014 - Present McMaster University Women's Basketball

- Awarded Athlete of the Week January 29, 2018

SKILLS

Technical Skills:

- Proficient with using Aspen Plus, MATLAB, Microsoft Word, Excel, PowerPoint & Access
- Experience using Python, Autodesk Inventor, R-coding & Pipeflow

Laboratory Experience:

- Proficiency in using temperature sensors, RTDs, pH sensors
- Skilled in water quality testing
- Experience working with pumps & piping systems
- Completed WHMIS Safety training
- Completed Bio Safety training

Other:

- G-class licensed driver
- Standard First Aid Certified