

DATE

Dear **HIRING MANGER**,

COMPANY SPECIFIC - INTRODUCTION

Currently I am in my third year of Mechatronics Engineering at McMaster University. This multidisciplinary degree is composed of content from Mechanical, Electrical, and Software Engineering. I have developed a strong theoretical foundation while gaining practical experience through numerous labs and design projects. Outside of class I apply coursework through side projects in order to expand my knowledge and to further my knowledge in that specific area. An example of such is my Smart Powerbar project which required the implementation of a variety of electronic components, and the integration of custom software.

This past summer I had the opportunity to complete a three month internship at SNC Lavalin.

As my first formal work experience I had to quickly absorb information and adapt to the workplace environment. I was tasked with learning the system used to operate nuclear fuel channel inspection tooling (BRIMS ANDE). With this knowledge I developed a practical training assessment based on historic data acquired from the tool. To accomplish this task to a degree in which I could successfully test the technicians and correct their mistakes I had to learn the entire workings of the robotic system, from the design of the physical tool to the custom programs used to process the raw data. I also analyzed metrics from previous inspections, such as time, in order to discover where and how performance can be improved in the future.

Participating in the FIRST Robotics Competition for almost a decade has shaped who I am today. This program challenges its students to design a fully functional robot catered towards a specific challenge. Progressing from a junior student, to a senior student and finally returning as now an alumni mentor to my FIRST Robotics team, I'm actively learning to be a better leader. The tight 6-week timeline of the competition requires a streamlined design approach, which has taught me to iterate often and keep it simple. My three years as a mentor has given me invaluable leadership skills, and insight into large organization practices.

COMPANY SPECIFIC - CONCLUSION

Thank you for your consideration, and I look forward to hearing back from you. Please let me know if there is any other information that I can offer to support my candidacy.

Sincerely,



Jatan Bhatt