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Ms. Jennifer Lawrence
Recruitment Specialist, Human Resources
Thales Canada Inc.
105 Moatfield Drive,
Toronto ON, M3B 0A4

Dear Ms. Jennifer Lawrence,

Constant innovation is a quality that every organization needs to stay relevant in this fast-paced, continuously evolving world. That strive for innovation is the reason why I am aspiring to be a Software Engineer. I am passionate about creating ways to innovate and improve things in every project I work on. Thales has that same passion for innovation which can be seen through their CBTC technology focus on improving safety while also creating autonomous operations and addressing major social challenges like green transportation. Please accept my enclosed resume as an application for the **4-month** position of **Software Analyst Co-op (C)** in the ATE/ Vehicle Solutions at Thales, posted on the McMaster University co-op website.

I am currently enrolled in my 4th year of the 4-year Software Engineering co-op program at McMaster University. Throughout my academic career, I have learned the technical and analytical skills needed to be successful in the role of Software Analyst. I have developed my testing and debugging skills through multiple labs and assignments. An example of this is when I worked on designing a pacemaker prototype for the Software Development course. The project required the use of **Python** and **MATLAB** to implement the design. I frequently tested and debugged each subsystem, and developed test cases to identify why the prototype failed so that I could troubleshoot the problem. I kept accurate documentation of each step that I took in order to create places of reference during the trial and error portion of the project development. In addition to my education, I was able to enhance my capabilities of creating software in **C** and **C#** during my employment as Special Projects Coordinator for the School of Engineering Practice & Technology, at McMaster University. I also gained valuable experience in optimizing and testing safety critical software systems within hybrid-electric vehicles through my involvement as the Controls Development Lead for the McMaster EcoCAR3 Team.

As the Controls Development Lead for the McMaster EcoCAR3 Team, I had the opportunity to build strong leadership and teamwork abilities. The goal of the EcoCAR3 Team was to re-engineer a Chevrolet Camaro into a hybrid-electric vehicle. In order to accomplish this goal, I had to collaborate in a multi-disciplinary team consisting of members not only in engineering, but in business and communications programs as well. In my position as the Controls Development Lead, I was responsible for creating timelines, writing requirements, executing test cases, documenting results, and leading the controls sub-team. I developed my leadership skills by effectively managing the controls sub-team of engineering students and motivating them to complete competition deliverables and projects on time.

With my skills and abilities, I am confident that I will easily transition into the role as Software Analyst Co-op and effectively contribute to the team at Thales. I look forward to the opportunity to meet with you personally to further discuss my qualifications. You can contact me at **(905)525-9140** or by email at yuxj@mcmaster.ca to arrange an interview at your earliest convenience. Thank you for your time and consideration.

Sincerely,

Xiao Yu