Pete (Maverick) Mitchell

Software Engineering, Level IV

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June 20, 2022

Mr. Nick Bradshaw
Recruitment Specialist, Human Resources
Thales Canada Inc.
105 Moatfield Drive,
Toronto ON, M3B 0A4

Dear Mr. Bradshaw,

Constant innovation is a quality that every organization needs to stay relevant in this fast-paced, continuously evolving world, and that strive for improvement is the reason why I aspire to be a Software Engineer. I am passionate about creating ways to transform and enhance things in every project I work on. Thales shares 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 four-month position of Software Analyst Co-op in the ATE/Vehicle Solutions department at Thales, posted on McMaster University's co-op website.

I am currently enrolled in my final year of the four-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, developed test cases to identify why the prototype failed so that I could troubleshoot the problem, and kept accurate documentation of each step that I took 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, where I programmed a COVID-19 screening program for club attendees

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. The goal of the EcoCAR3 Team was to re-engineer a Chevrolet Camaro into a hybrid-electric vehicle. To do so, I had to collaborate in a multi-disciplinary team consisting of members from Engineer, Business, and Communications programs. not only in engineering. In my position as the Controls Development Lead, I was able to demonstrate strong leadership and teamwork abilities, as I was responsible for creating timelines, writing requirements, executing test cases, and documenting results. I also led the controls sub-team of 8 engineering students and motivated them to complete competition deliverables and projects on time.

With my skills and abilities, I am confident that I will easily transition into the Software Analyst Co-op role 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 mitchem@mcmaster.ca to arrange an interview at your earliest convenience. Thank you for your time and consideration.

Sincerely,
Pete Mitchell