

ANDI ZHOU

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Dear Ms. Meriem Ghouil at Pratt & Whitney Canada,

You may find parts of my resume rather intriguing. With an aerospace degree but automotive internships, my experience may seem rather “un-conventional” for a candidate at Pratt and Whitney Canada. Yet, it is my firm belief that a robust engineering foundation is best constructed through a diverse industry exposure. After completing one internship in aerospace industry and two others in automotive, including opportunities at renowned firms such as Volvo and Zoox, I have come to realize my true passion lies in machines that empower flight.

Therefore, I am writing this letter expressing my sincere interest in the engineering rotation program at Pratt and Whitney Canada, specializing in aero-thermodynamics, design engineering, and engineering testing/validation. I am convinced that the rigorous, fast-paced, engineering acumen I developed in the automotive realm, combined with my Master’s education in aerospace engineering will serve as a strong foundation for me to begin my passion and career in Pratt and Whitney Canada!

In the fast-paced world of automotive engineering at companies like Zoox and Volvo, I managed projects requiring rigorous thermal management and complex fluid dynamics. For example, at Zoox, I spearheaded the completion of a powertrain and battery cooling system test stand that not only enhanced coolant flowrate by 7.5% but also incorporated testing automation that reduced testing times by 80%.

Moreover, my experience with Solar Ship directly involved aircraft design, where I engineered an 11-G resilient extendable controller mount for the pilot and participated in flight testing of solar-electric airships. This project demanded practical considerations of lightweight principles, ergonomic design, and safety factors that are crucial in aerospace applications.

From Toronto to North Carolina and California, and as far afield as Germany, my journey has not only gifted me with diverse engineering experience but also fostered in me a deep appreciation for different cultures around the world. The most joyous moments in my life, second to engineering, are the immersive experience of exploring and embracing the unique culture of each city I’ve had the pleasure to call *home*.

Thank you so much for your consideration! Joining Pratt and Whitney’s rotation program presents the opportunity for me to further this journey in two of Canada’s most dynamic cities, Toronto and Montreal. I believe my adaptability and eagerness to explore different cultures, coupled with the engineering skills I have developed throughout my internships, makes me well-equipped to not only embrace the various challenges, but also the extensive learning opportunities that presents within the rotation program.

Sincerely,

Andi Zhou