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## **Dorset M. Houston, B.A.Sc.**

### **Professional Profile**

Dorset Houston specializes in the analysis and investigation of automotive systems. His proficiencies include the following areas:

- Accident vehicle damage evaluation and measurement
- Electronic vehicle data retrieval and analysis
- Impact analysis and crash simulation
- Creation of CAD drawings, parts, and simulations in 2D and 3D
- Vehicle dynamics and work-energy relationships

Prior to joining Momentum PMV, Mr. Houston interned at Honda of Canada Manufacturing, where he worked as a Product Engineer and Test Engineer within the quality department for CRV body/exterior. He ran tests including thermal cycle, wind tunnel, non-destructive weld and water leak testing for the development of next-gen models. He also conducted root cause analysis and led investigations of product problems, identifying the departments, machines, suppliers, or techniques responsible for manufacturing defects. Mr. Houston also was a member of the Queen's University Baja SAE team for four years, in the vehicle dynamics group. Using CAD and FEA, he designed systems for the competition vehicle including the steering system in 2021, the brakes in 2022, and a bottom-up topology optimized wheel bearing package in 2023 using APDL.

### **Credentials and Professional Honors**

B.A.Sc., Mechanical Engineering, Queen's University at Kingston, 2024

