



MIE498H1: Research Thesis 2024-2025

Supervisor	Birsen Donmez
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Number of Positions	1
Open to	Undergraduate Mechanical and Industrial Engineering Students
Term Offered	Fall (F)
Research Area	Human Factors
Research Topic	Driving simulator study on in-vehicle touchscreen use

Project Description

In some consumer vehicles, driving-related controls (e.g., windshield wipers) are being moved from physical controls to touchscreens, but there is limited research on the safety of using touchscreens for such tasks. We will be conducting a driving simulator study to compare the use of touchscreen controls to standard physical controls (e.g., steering wheel stalk, physical buttons) for driving-related tasks. Participants will be asked to complete various tasks using both physical controls and a touchscreen interface and we will investigate differences in visual attention and driving performance between the two conditions. The student will assist with participant recruitment, data collection, data cleaning, and analysis.

Additional Information N/A

Application Instructions Please send your CV/resume and unofficial transcript to donmez@mie.utoronto.ca and chelsea.deguzman@mail.utoronto.ca.