Name of project supervisor(s): Birsen Donmez

Email of project supervisor(s):donmez@mie.utoronto.ca

Name of project: Driver and in-car voice-command system interactions

Project Description: Voice-controlled systems have the potential to reduce driver distraction caused by infotainment systems, leading to an improvement in safety and the overall driving experience. Several factors, however, can negatively affect the user experience of these multi-modal systems and thereby stand in the way of adoption and use. The goal of this project is to investigate how system notifications about degraded accuracy affect user perceptions about the system's effectiveness and driving behavior. A simulator study will be conducted. The undergraduate research student will work closely with a MASc student; helping with the design and coding of interfaces, running the experiment, and processing data for analysis. Ideally, the student should have good programming skills and should be familiar with GUI coding (in Windows or/and Android).