SOFTWARE AND DATA INFRASTRUCTURE FOR VEHICLE PROJECT

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Project Goals

• Setup / construct software to collect vehicle operator data for further analysis

⇒ Overall goal of Vehicle Project is to detect and understand human reaction in various vehicle operation situations, which can be widely used in developing safe driving system

• My project is to automate data collection
Project Breakdown

• Investigate open source / commercial driving simulator suitable for project

• Investigate other modalities of data to collect:
  • Thermal / normal video
  • Facial expression
  • GSR (galvanic skin response)
  • Heart rate
  • Eye / head movement
Project Breakdown

• Familiarize with eye tracking machine and packages

• Construct software to collect / timestamp/ register data collected

• Software to run experiment process