**Self-Driving Car System**

**FULL NAME: YUPENG WEN**

**STUDENT ID: s224212855**

**TEACHERS: Hourieh Khalajzadeh**

**DATE OF COMPLETION: 16/09/2024**

**WORD COUNT: 2614**

# Sceanrio

AutoDrive, a leading car manufacturer, is developing a fully autonomous driving system (ADS) to address growing demands for safer, more efficient, and environmentally-friendly transportation solutions. The goal is to reduce human error, which accounts for the majority of traffic accidents, while also alleviating road congestion and offering a new level of convenience to drivers.

This system will target urban commuters, delivery services, and people with mobility challenges by providing autonomous driving capabilities in a variety of environments, including city streets, highways, and parking lots. The AutoDrive system will leverage cutting-edge technologies such as LIDAR, cameras, radar, and artificial intelligence to safely navigate complex road situations in real time.