Urban Transport Vehicle

# Contents

# Executive Summary

Lack of public transport, travel time and parking are some of the core issues that the daily commuters of busy cities face. Many people have cleverly made use of the transit lanes which allow LE1 class vehicles to bypass the traffic during rush hour. However, the common LE1 class vehicles such as motorcycles and mopeds come with a substantial safety issue due to the lack of a ‘shell’.

The idea of a three wheeled LE1 classed vehicle aims to provide a safe solution to the safety issue by manufacturing a shell made from (material of chassis). Alongside this a (type of glass used for windshield and windows) windshield and windows birth a rigid chassis consisting of a butterfly door. With a total length of (X) meters and a width of (Y) meters, this urban vehicle’s compact design allows for the use of motorcycle parking.

The vehicle is a rear wheel drive due to the placement of the (Engine Type) engine, mounted onto the rear chassis. A hydraulic tilting system is integrated into the design to assist with every turn. A maximum of 45 degrees of tilt is achieved within two seconds. The vehicle is configured to run despite the changes in weather.

# Features

## Chassis

## Drivetrain

## Turning System

## Brakes

# Overall Design

# Conclusion

# Maintenance Instructions

# Teamwork Reflection

# Appendix A – Equations

# Appendix B – Figures