Handover Plan

# Introduction

This document details the handover of this project. This will be based on the definitions of the deliverables in the agreed upon project specification.

## Time of Handover

Handover will happen in the first exam week, no later than Friday 15 November.

# Deliverables

## Design Documentation

*Detailed process documentation, including ideation, morphological table and scoring matrix to determine possible designs. This would be justified by calculations and drawings encapsulated in a report.*

To be delivered:

* Main report including:
  + The above-mentioned process documentation
  + List of other delivered files
* Supporting documents attached
  + Excel sheet with scoring matrix
  + Any other relevant documents…
* List of personal contributions for each team member

## Mechanical Design

*Built upon the existing CAD model provided by UTSMS to include the new steering actuating system, which is compliant with the new rules and regulations.*

To be delivered:

* CAD models of all designed parts.
* CAD assembly of car fitted with designed parts.
* FEA of motor mount.
* Excel sheet with torque calculations.
* Excel sheet with belt and gear calculations.

## Mechatronic Design

*Selection of an appropriate motor and motor controller. Source hardware and develop software for a control unit that must be compatible with the pre-existing UTSMS-customised CAN bus line (2.0).*

To be delivered:

* Report including:
  + Introduction to chosen components
  + Links to relevant documentation

Quick-start guide with step-by-step instructions for running the motor

* + Recommendations for future development
* Collected reference documents for development
* Any developed code for STM32 microcontroller

## Manufacturing Documentation

*Finished manufacturing drawings, bill of materials and budget.*

To be delivered:

* Manufacturing drawings
* Bill of materials with budget

## Physical Prototype

*Physical 1:1 prototype of some of the key components. Must allocate time for special parts (such as PCB, motor, etc.) to be prepared in advance to meet deadlines.*

*Stretch goal: Manufacturing of full setup.*

To be delivered:

* AK80-9 motor + STM32 microcontrollers + additional electronic components
* 3D print of motor mount
* 3D print of mounting wedge
* 3D print of casing/enclosure