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School of Physics, Engineering and Technology

**MEng Initial Project Report  
  
2022/23**

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**Project Title:** Electric Vehicle Motor Design Optimization and Comparative Study

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Table of Contents

# Introduction

On top of my bookshelf back at home, there lies a relic from my childhood – a Mini 4WD toy car. Hopefully still running since the last time it got powered up, but once it is on the track the 4WD will just start flying. What drives the race car is the Tamiya Power-Dash motor, a fine piece of Japanese craftmanship. Powered by a pair of AA battery the Mini 4WD gain a lot of speed and torque to travel across the course with little effort, all of that is generated inside a motor of a size of a coin.

# Specification

# Overview

# Description

# Timetable

# References

**There are no sources in the current document.**