

# Specification PCM

## 1. Top-Level-Requirement

The application should bring out a car from different parking positions automatically

## 2. Functional Requirements

### Required

2.1 The application should be able to bring out the car from a parallel parking position

2.2 The application should be able to bring out the car from a perpendicular parking position

2.3 The application should be able to bring out the car from an angled parking position

2.4 The application should be able to work on the road side

2.5 The application should be able to work in a parking facility

2.6 The application should provide relevant sensor information to the driver in an graphical overview

2.7 The application should provide information about the current action to the driver in an aerial car view

2.8 It should always be possible for the driver to intervene the current process

2.9 The application should be able to work with right-hand traffic

2.10 The application should be able to work with left-hand traffic

2.11 The application should consider the traffic rules and should act properly

2.12 The application should bring the car out of the parking system in a way that after that process it is possible to enter it from all sides

## **Nice-to-have**

2.13 The application should work independent of the current weather conditions

2.14 The cars should have customizable skins, selectable by the user

2.15 The application should be remote-controllable by a mobile application if the user is within a defined range to the vehicle

## **3. Non-functional Requirements**

3.1 The application must comply national safety regulations

3.2 The application should have a suitable design

3.3 The application should be integrated in the given car's entertainment system

3.4 The application's GUI should be easy to grasp for the user

3.5 The application should be easy to extend

3.5 The application should be secured against any kind of attack

3.6 The application should be integrateable in different sorts of vehicles

3.7 The application should be developed with C#/.NET

3.8 The application's GUI should be developed with WPF.

The specification was read and accepted by:

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(Customer, Date)

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(Contractor, Date)