**ENGG1100 Introduction to Engineering Design**

**Faculty of Engineering**

**The Chinese University of Hong Kong**

**Mid-term Test Run Specification**

**Requirement**

You have to construct a prototype car that performs the following functions:

* Move forward at constant speed
* Carry a reed switch at its bottom
* Stop when the reed switch detects a magnetic stripe

To achieve these goals, you (may) have to apply and combine the basic electronic/mechanical knowledge you have learnt in the lab sessions (up to Lab 5). Please feel free to use the electronic modules provided in Lab 4 to Lab 5.

**Venue/time**

Date: February 24, 2014

Venue: the same place where you conduct your laboratory experiments

Time: the same time as your laboratory experiments

The assessment for individual group in each session will be done on a **first-come-first-serve** basis. Notify your TA once you are ready to go. After the demonstration, you may continue doing your project until the lab session ends.

**Assessment/grading policy**

The mid-term test run accounts for 5% of the course mark. Once you have started the demo, you are given **at most three trials** to demonstrate the required functions to your TA. The marking scheme is as follows:

|  |  |
| --- | --- |
| **Task** | **Mark** |
| The car can move forward at constant speed | 2.5% |
| The car stops once it detects a magnetic stripe | 2.5% |
| Total | 5.0% |

**- End -**