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|  | **THE UNIVERSITY OF SHEFFIELD Department of Electronic and Electrical Engineering**  **3rd Year Individual Project**  **Project Initialisation Document** | | | |  |
| **Student Name** | |  | | | |
| **Project Title** | |  | | | |
| **Supervisor** | |  | **Second Marker** |  | |

*This report should identify the aims and objectives of your project, and contain an assessment of the project schedule (time plan), specification and risks that could prevent your project from completing to schedule. A risk assessment of potential hazards faced during the project is not required here, but should be completed online (RACIE). A literature review describing the background research you have undertaken should also be included and will also be assessed by your supervisor. This document will then be used to compare against your project achievements at the end of the schedule.*

*Maximum Document length – 6 sides of A4 (no word-count limit) and please delete the instructions.*

*Assessment breakdown: Aims/objectives/specification = 1/3rd*

*Literature Review = 1/3rd*

*Time plan = 1/6th*

*Risk Register = 1/6th*

**Description and aims of Project:**

*Introduce your project and the topic area, so that someone with no engineering background could understand the project. What are the key objectives that must be met? Can a system diagram be included?*

**Literature review:**

*How does the project fit into previous/ongoing work in that topic area? What problems do you face and what existing measures are available? The background research included in this section should be from peer-reviewed material (IEEEexplore for example) and be referenced accordingly (see Reference section below).*

**Project Specification:**

*This is the specification for your project. At the end of the project, your achievement will be marked against it.*

*The specification should be produced with the help of your supervisor. The specification should contain enough detail for another person to carry out the work having read it. It should not contain descriptions of any required theory.*

**Project Schedule:**

*Identify the main component headings (e.g. literature review, testing) and label them with numbers or letters. Insert the labels in the left hand column of the Gantt chart and draw bars to indicate the projected time span of each component in* ***weeks****. This is just a suggested template and you may use your own Gantt chart design. A common mistake here is to not give enough detail. i.e. having just three components of Research, Design, Test shows that you have not given sufficient thought to the execution of the project. Also indicate any interdependencies between components and try to identify the critical path for the project. Examples have been included here.*

*A – Background research*

*B – Report 1*

**Time-chart (use as a bar chart in conjunction with the main headings above)**

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| Component | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**References:**

*Web references should be kept to a minimum as they are usually not peer-reviewed.*

1. W. Kempton, J. Tomic, “Vehicle-to-grid power implementation: From stabilizing the grid to supporting large-scale renewable energy”, Journal of Power Sources, vol. 144, no. 1, pp. 280-294, June, 2005.

**Risk Register:**

*Identify the key problems that could prevent your project from completing on time and associate a likeliness and risk level (Low/Medium/High). How can these risks be reduced?*

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| **Risk Number** | **Description of Risk** | **Mitigation of Risk** | **Risk evaluation (L/M/H)** | **Chance of risk occurring (L/M/H)** |
| **1** | **Loss of data (USB key)** | **Multiple back-ups in multiple locations** | **M** | **L** |
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| **FOR COMPLETION BY SUPERVISOR** | |
| Does the project require ethical approval? As with PGR projects you must obtain ethical approval if required. For more information see: https://www.shef.ac.uk/ris/pgr/code/ethical | YES NO  Delete as applicable |
| I agree that this specification is of a satisfactory standard for the student to continue with the project.  Supervisor’s Signature: Date: | |