ELG2336 Design Project Proposal

**Proposed Title of the Project:**

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**Mechanical Engineering Team:**

|  |  |
| --- | --- |
| **Name** | **Email** |
|  |  |
|  |  |
|  |  |

**ELG Student if Applicable:**

|  |  |
| --- | --- |
|  | **Email** |
|  |  |

**TA Supervisor:**

|  |  |
| --- | --- |
| **Name** | **Email** |
|  |  |

Engineering design is the application of math, science and engineering principles to the creation and development of systems components and processes.

**Project Details and Brief Design**

**Problem Statement**

Clearly and concisely identify the problem.

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**Design Statement**

The design statement is challenging; it is about taking action to address the need and to solve the problem. It must specify the degree to which you will carry out the solution. The design statement may also contain an underlying theme or very important constraint.

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**Constraints**

These are guidelines that must be followed. Examples include time, budget, aesthetics, codes, safety, and physical attributes.

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| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |

**Generated Concept**

Brainstorming and preliminary sketches

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**Deliverables by End of March, 2016:**

|  |  |
| --- | --- |
| **Item** | **YES or NO** |
| Poster |  |
| Simulation Work |  |
| Specifications |  |
| Sizing of Components |  |
| Skills of Arduino |  |

**Deliverables by End of November, 2016:**

|  |  |
| --- | --- |
| **Item** | **YES or NO** |
| Prototype |  |
| Report |  |
| Demonstration of Prototype |  |
| Video |  |

**Required Facilities**

|  |  |
| --- | --- |
| **1** |  |
| **2** |  |
| **3** |  |
| **4** |  |

**Knowledge Areas and Simulation Tools Needed for Project**

|  |  |
| --- | --- |
| **1** |  |
| **2** |  |
| **3** |  |
| **4** |  |

**Estimated Budget**

|  |  |
| --- | --- |
| **Item** | **Cost** |
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**Green Engineering Theme**

Identify the green and sustainability theme followed in the proposal**.**

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