**Thermodynamics Lab Project Proposal Template**

**Instructions:** Complete template and email it to [mae221lab@gmail.com](mailto:mae221lab@gmail.com) by noon on Monday Nov 4.

Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Theme (circle one): Sustainable Energy Propulsion

AI Mentor (circle one): Claudia-M Nan-T Matt-W Jessica-Th

List the names of the team members (all must be in the same lab section):

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**Contents (2 pages)**

1. Background and motivation for the idea (1-2 paragraphs): [20 pts]

Provides the necessary information or introduction so that the reader is able to appreciate your project idea and understand the motivation behind the idea.

1. Project description (1-2 paragraphs) [30 pts]

A description of the project. What exactly do you propose to make? What research question are you attempting to answer? What thermodynamics concepts/theory are relevant to the study proposed in this project? How will you test this?

1. Sketch (1 page) [25 pts]

An annotated sketch of the proposed project to complement the project description

1. List of materials, including cost estimate [15 pts]

List each item you need to buy and make including instrumentation for making the measurements. Present info in tabular form; estimate total cost.

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| --- | --- | --- | --- | --- |
| **Item** | **Description** | **Quantity** | **Cost** | **Reference/Comment** |
|  |  |  |  |  |

1. Final statement: why should we support (i.e. fund) your project and what do you hope to learn from it as relates to this course? (2-3 lines) [10 pts]
2. **Background and motivation for the idea**
3. **Project description**
4. **Sketch**
5. **List of materials, cost estimate**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Description** | **Quantity** | **Cost** | **Reference/Comment** |
|  |  |  |  |  |

1. **Final statement**