**ECE569 Proposal Template ― Instructions**

**[Project Title]**

**Team Members**

**Email addresses**

**Group # on D2L**

* “Suggested Length” means “Maximum” and remove those items from your finished document.

|  |  |
| --- | --- |
| Brief (less than 200 words) technical abstract of the proposed project | A statement of why you think the topic is important (Give a set of reasons why this is relevant), description of the hypothesis, a crisp statement of the hypothesis that you will test. List of project goals (This will be our contract: this is what you promise to do) |
| Brief (less than 200 words) discussion of anticipated benefits | Projects should be designed with a rigorous experimental focus. One of the key project requirements is to improve the performance with applicable optimization techniques and conduct trade-off analysis. |
| A maximum of eight key words that describe the project |  |

# Identification and significance of the problem or opportunity

## Statement of Problem

[Suggested Length: 0.50 page. Note that figures are centered. Please use the Figure Title style for the caption. We use a colon after the figure number, title case for the caption, and no punctuation at end of caption.]

**Note:** Always mention/describe a figure or table before it appears.

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Figure 1: Bathtub Curve

Table 1: Sample Table (use the Table Title style here)

| Cellbody style | [This shading is 10% grey] |  |  |
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## Problem Background

[Suggested Length: 0.50 page]

## Current Level of Technology

[Suggested Length: 0.50 page]

## Limitations of Current Technology

[Suggested Length: 0.50 page]

## Solution

[Suggested Length: 0.50 page]

**Remember:** Your proposed solution may evolve or change during your detailed investigations. At this stage of the project, you are required to start with a meaningful plan. No point starting something if you cannot articulate why this might be interesting or doable.

### Background

[Suggested Length: 0.50 page]

Discussions should include references to relevant papers you have obtained.

### Statement of Solution

[Suggested Length: 1.0 page]

### How Solution Overcomes Current Technology

[Suggested Length: 0.50 page]

The purpose of the project plan is to provide background material for the work you are to complete and to describe the actual experiments and expected results. The proposal should be sufficiently detailed so that I can understand specifically what you are going to do. An important part of the proposal is my understanding of your proposed work.

### Validation and Evaluation Strategy

How do you plan to verify the functionality? How do you plan to conduct performance evaluation? Which metrics will you be using for evaluation?

# Technical objectives

[Suggested Length: one paragraph + bullet list or table]

The following objectives are proposed to determine the feasibility of this solution:

* [Sample bullets]

## Project Milestones and Tasks

### Milestone 1: Obtain vehicle datasets for analysis and evaluation

* [Task Name]
* [Task Name]

### [Milestone Name]

* [Task Name]

### [Milestone Name]

* [Task Name]

### [Milestone Name]

* [Task Name]

### [Milestone Name]

* [Task Name]

## Work Plan Schedule

[Suggested Length: 0.50 page]

Table : Task Schedule [note: this style is called Table Title]

| Task | Description | Weeks | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
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|  | Write Final Report |  |  |  |  |  |  |