

# IOWA STATE UNIVERSITY

Department of Electrical and Computer Engineering

## Senior Design Project Proposal Form

Client/Company/Organization: \_\_\_\_\_

Submitter (name): \_\_\_\_\_

Email: \_\_\_\_\_

Project Contact: \_\_\_\_\_

Email: \_\_\_\_\_

Project Title:

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**Project Abstract** (include **ALL project goal(s)**, design constraints, and technical approaches and tools):

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**Expected Deliverables** (include expected schedule, cannot be open-ended, **must list at least one deliverable**):

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**Specialized Resources** Provided by Client (be as specific as you can):

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**Anticipated Cost:** \_\_\_\_\_

**Financial Resources Provided by Client** (if any): \_\_\_\_\_

*NOTE: General Resources Provided by ISU/ECpE: MSDNAA software, and access to resources in ECpE teaching and research labs, e.g., electronics, embedded systems, etc.*

**Enter # Students Preferred/Required:**

- Electrical Engineering
- Computer Engineering
- Software Engineering
- Other (specify):

**Special Skills Required of Students** (be specific):

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**Anticipated Client Interaction (estimate):**

- 1 meeting per week
  - phone,  internet,  live
- 1 meeting per month
  - phone,  internet,  live
- 2 or more meetings per month
  - phone,  internet,  live
- 1 meeting per semester
  - phone,  internet,  live

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**Meeting ABET Criteria**

Please rate the following statements as they relate to your proposed project:

*0 – Not at all*

*1 – A Little*

*2 – Somewhat*

*3 – A Lot*

*4 – Completely*

On this project, students will need to apply knowledge of mathematics, science, and engineering

0    1    2    3    4

This project gives students an opportunity to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

0    1    2    3    4

This project involves students from a variety of programs, i.e., SE, EE, and CprE

0    1    2    3    4

This project requires students to identify, formulate, and solve engineering problems

0    1    2    3    4

This project gives students an opportunity to use the techniques, skills, and modern engineering tools necessary for engineering practice

0    1    2    3    4

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**Project Approval – for use by ECpE Senior Design Committee**

Approved

Not Approved

Faculty Advisor Assigned: \_\_\_\_\_

Project Number Assigned: \_\_\_\_\_