

Cpr E/E E/S E 492: Senior Design II
Industry Review Panel Grading Form (35% of the Course Grade)

Team Number: _____ **IRP Member:** _____

Award Worthiness: [0-10]

Design Score: [0-10]

Ability 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.

System Design:

- Project Need and Goal
- Functional Requirements
- Non-functional Requirements
- Market / Literature Survey
- Resource Requirements
- Risk Identification & Mitigation
- System Analysis
- Functional Decomposition

Detailed Design:

- HW/SW Modules Design
- Design Tradeoffs & Innovativeness
- I/O & User Interface Design
- Modeling & Simulation

Problem Solving Score: [0-10]

Ability to identify, formulate, and solve engineering problems.

Requirements/Specification:

- Challenge Identification and formulation
- Solutions
- Innovation
- Perseverance

Technical Skills, Prototype, and Project Success Score: [0-10]

Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Prototype:

- Build - Platforms & Technologies
- Build - Implementation Detail

Project Success:

- Demo
- Innovation

Testing Score: [0-10]

An ability to design and conduct experiments, as well as to analyze and interpret data:

- Test Plans
- Test Results & Evaluations
- Field Testing & Client Feedback
- Conclusions & Lessons Learned
- Future Work

Communication Average: [0-10]

	(0-6) Unsatisfactory	(6-8) Developing	(8-9) Competent	(9-10) Exceptional
Oral Communication: Organization	Poor organization. No introduction. Summary and conclusions are not clear	Audience has difficulty following presentation because of some abrupt jumps; some of the main points and conclusion are unclear.	Satisfactory organization; clear introduction; main points are well stated even if some transitions are somewhat sudden; clear conclusion.	Superb organization; clear introduction; main points well stated and argued with each leading to the next point of the talk; clear summary and conclusion.
Oral Communication: Delivery	Delivery lacks confidence. Reads slides. No eye contact with audience.	Low voice occasionally inaudible; some distracting filler words and gestures; pronunciation not always clear.	Clear voice generally effective delivery; minimal distracting gestures but somewhat monotone	Natural confident delivery that does not just convey the message but enhances it; excellent use of volume and pace.
Written Communication: Style	Spelling or grammar errors present throughout more than 2/3 of paper. style is inappropriate for audience; prescribed format is not followed	Text rambles, key points are not organized; spelling or grammar errors present throughout more than 1/3 of paper. Prescribed format is followed.	Articulates ideas; one or two grammar or spelling errors per page; prescribed format is followed.	Articulates ideas clearly and concisely; presented neatly and professionally; grammar and spelling are correct; uses good professional style; conforms to prescribed format.
Written Communication:	Little evidence of organization or any	Material generally well organized but	Organizes material in a logical sequence to	Organizes material in a logical sequence to

Organization	sense of wholeness & completeness. Use poor transitions or fails to provide transitions.	paragraphs combine multiple thoughts or section / subsections are not identified clearly.	enhance reader's comprehension (paragraph structure subheadings etc.) with few lapses.	enhance reader's comprehension (paragraph structure subheadings etc.). Provide transitions that eloquently serve to connect ideas.
Written Communication: Use of graphs and tables	Figures presented are flawed: axes mislabeled, no data points etc.	Uses graphs tables diagrams but only in a few instances are they used to support explain or interpret information.	Most of the instances uses graphs tables diagrams to support points; to explain interpret and assess information; figures are all in proper format.	Throughout the report Uses graphs, tables, diagrams to support points; to explain interpret and assess information; figures are all in proper format.
Oral Communication: Content	Boring slides; numerous mistakes; Main points are missing	No real effort made into creating a truly effective presentation; poor participation of team members.	Generally good set of slides; conveys the main points well. Adequate participation of team members.	Very creative slides; carefully thought out to bring out both the main points as well as the subtle issues while keeping the audience interested.

IRP Comments to the team:

IRP Comments to the faculty (confidential from students):