

UNIVERSITY OF MASSACHUSETTS AMHERST
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
SDP09 Final Project Review (FPR) Evaluation Form

SDP09 Team Advisor: _____

Date: _____

FPR Reviewers: _____

Instructions: Please assess the team's level of achievement, as demonstrated in the Final Project Review (FPR), of outcomes A – K, using the following scale:

- A = Excellent, B = Good, C = Fair/Minimally Acceptable, U = Unacceptable, I = Insufficient Data.

Please provide explanations for any "U" or "I" assessments. In section II, please record specific feedback for the team along with the team's FPR grade. Please leave the completed form in Marcus 8.

I. Outcome Assessments

A. Application of Mathematics, Science and Engineering

The team's assignment for this section of the appendix was to...

- provide material in order to demonstrate how they have applied their knowledge of mathematics, science and engineering
- list three mathematics, science and/or engineering courses they have used in this project
- describe how they used material from each of the listed courses
- include one detailed example

A1 Rate the team's demonstrated ability to apply mathematics, science and engineering.

A	B	C	U	I
Comments and/or Questions:				

B. Design and Performance of Experiments, Data Analysis and Interpretation

The team's assignment for this section of the appendix was to...

- describe an experiment they designed and performed
- provide an example of data analysis they performed
- provide an example of an interpretation derived from data

B1 Rate the team's demonstrated ability to design and perform experiments.

A	B	C	U	I
Comments and/or Questions:				

B2 Rate the team's demonstrated ability to analyze and interpret data.

A	B	C	U	I
Comments and/or Questions:				

C. Design of System, Component or Process to Meet Desired Needs within Realistic Constraints

The team's assignment for this section of the appendix was to...

- describe the system requirements of their design
- describe at least two realistic constraints imposed on their design (chosen from the following categories: economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability)
- describe how their design to date addresses the requirements and constraints

C1 Rate the team's demonstrated ability to design a system, component or process to meet desired needs.

A	B	C	U	I
Comments and/or Questions:				

C2 Rate the team's demonstrated ability to identify and address realistic constraints in their design.

A	B	C	U	I
Comments and/or Questions:				

D. Multi-disciplinary Team Functions

The team's assignment for this section of the appendix was to...

- describe the multi-disciplinary technical roles of the team members
- provide examples of how each team member functioned in his/her technical roles
- provide examples of how each team member functioned in his/her administrative roles
- state the major of each team member

D1 Rate the team's demonstrated ability to partition the overall project into appropriate technical roles for each team member.

A	B	C	U	I
Comments and/or Questions:				

D2 Rate each team member's demonstrated ability to function in his or her technical role. (Enter the member's name and major from the Team List.)

D2.1 Member 1: _____ Major: _____				
A	B	C	U	I
Comments and/or Questions:				

D2.2 Member 2: _____ Major: _____				
A	B	C	U	I
Comments and/or Questions:				

D2.3 Member 3: _____ Major: _____				
A	B	C	U	I
Comments and/or Questions:				

D2.4 Member 4: _____ Major: _____				
A	B	C	U	I
Comments and/or Questions:				

D3 Rate the team's demonstrated ability to function as a multi-disciplinary team.

A	B	C	U	I
Comments and/or Questions:				

E. Identification, Formulation and Solution of Engineering Problems

The team's assignment for this section of the appendix was to...

- provide an example of an engineering problem that they identified in designing our system to meet requirements
- describe how they formulated the engineering problem as a model amenable to solution
- describe their solution to the problem

E1 Rate the team's demonstrated ability to identify, formulate and solve an engineering problem in their design.

A	B	C	U	I
Comments and/or Questions:				

F. Understanding of professional and ethical responsibility

The team's assignment for this section of the appendix was to...

- describe an issue of professional or ethical

- responsibility that arose in the team's work
- describe how the team dealt with the issue

F1 Rate the team's demonstrated understanding of professional and ethical responsibility.

A	B	C	U	I
Comments and/or Questions:				

G. Team Communication

The team's assignment for this section of the appendix was to...

- describe the various means the team is using to communicate, in oral and written form.

G1 Rate the team's demonstrated ability to communicate in writing.

A	B	C	U	I
Comments and/or Questions:				

G2 Rate the team's demonstrated ability to give an effective presentation.

A	B	C	U	I
Comments and/or Questions:				

G3 Rate the team's demonstrated ability to communicate within the team.

A	B	C	U	I
Comments and/or Questions:				

H. Understanding of the impact of engineering solutions in a global, economic, environmental and societal context.

The team's assignment for this section of the appendix was to...

- describe how the design could have a positive impact in a global, economic, environmental or societal context.
- describe how potentially negative global, economic, environmental or societal consequences influenced our design.

H1 Rate the team's demonstrated understanding of the global, economic, environmental and/or societal impacts of their design.

A	B	C	U	I
Comments and/or Questions:				

I. Application of material acquired outside of coursework.

The team's assignment for this section of the appendix was to...

- list three sources of information from outside of courses that we used in this project.
- describe how material from each of the sources was used.
- include one detailed example

I1 Rate the team's demonstrated ability to use material acquired outside of coursework.

A	B	C	U	I
Comments and/or Questions:				

J. Knowledge of Contemporary Issues

The team's assignment for this section of the appendix was to...

- describe how the project is motivated by a consideration of contemporary issues.

J1 Rate the team's demonstrated knowledge of contemporary issues relevant to their project.

A	B	C	U	I
Comments and/or Questions:				

K. Use of modern engineering techniques and tools

The team's assignment for this section of the appendix was to...

- list three modern engineering techniques and/or tools (e.g., statistical analysis, MATLAB, VHDL) that are being used in this project.
- describe how they are using each of the listed techniques/tools
- give one detailed example

K1 Rate the team's demonstrated ability to use modern engineering techniques and tools.

A	B	C	U	I
Comments and/or Questions:				

II. FPR Grade, Comments and/or Questions

FPR Letter Grade: [15% of ECE 416 final grade. If the situation calls for it, the board may opt to assign different grades to the various team members.]

Comments and/or Questions: