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.

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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.

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Comments and/or Questions:

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

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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.

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Comments and/or Questions:

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

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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.

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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

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

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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.

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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.

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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.]

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