

Grading Policy – SD-I Summer 2014

- ◆ Project outcome points: up to 80 points
- ◆ Student self-assessment: up to 5 points
- ◆ Soft-skills: up to 10 points:
 - ◆ Ethics (final reports and senior design day poster): up to 2 points
 - ◆ Lifelong learning (proposal, final report, and class assignments): up to 2 points
 - ◆ Contemporary issues (proposal and final report): up to 1 point
 - ◆ Multi-disc teams (proposal and final report): up to 2 points
 - ◆ Communications (semester project work, meetings, weekly reports, and class assignments): up to 3 points
- ◆ Feedback from Senior Design Day judges (if available): up to 5 points. If feedback from the judges is not available, the points will be based on the instructor evaluation.

Project Outcome Points

Project objective should be CLEARLY spelled out in the project proposal, for example the proposal should have a section that specifies:

- ◆ If the project achieves MEASURABLE feature set A (the way the measurement is performed should be clearly indicated) -> 80 points
- ◆ If the project does not achieve MEASURABLE feature set A, but reaches MEASURABLE set B -> 70 points
- ◆ If the project does not achieve MEASURABLE feature set A, nor set B, but reaches MEASURABLE set C -> 60 points
- ◆ If the project does not achieve MEASURABLE feature set A, nor set B, nor set C, but reaches MEASURABLE set D -> 50 points
- ◆ If the project does not achieve MEASURABLE feature set A, nor set B, nor C, nor D but reaches MEASURABLE set F -> 40 points

The instructor MUST approve the proposal objectives: see next slide

Measurable Feature Sets

- ◆ Set D: Functioning sensors and actuators controlled from Arduino Board
- ◆ Set C: Functioning of Set D plus RF cell communications to/from the cloud
- ◆ Set B: Functioning of Set C plus self-controlled operation implemented in/via Breeze
- ◆ Set A: Functioning of Set B plus integration of all sub-systems and components (Sensors+Actuators+Arduino board, RF cell communication, Cloud Breeze, Smartphone UI)
- ◆ Set A+: Demonstration of correctly achieved mission, e.g., controlling the entire system to accomplish a well defined objective(s), e.g., avoiding car crash

Student Self-assessment: Up to 5 Points

- ◆ Each student will be asked to evaluate each Team Member's contribution to the project
- ◆ The cumulative evaluation will be used to individually grade each Team Member adding up to 5 points to the Member's final score
- ◆ Further instructions will be sent for the self-assessment procedure

In the Final Report Make Sure You Have the Following Sections

- ◆ Soft-skills: up to 10 points:
 - ◆ Section on “**Ethics**” (final reports and senior design day poster): up to 2 points
 - ◆ Section on “**Lifelong Learning**” (proposal, final report, and class assignments): up to 2 points
 - ◆ Section on “**Contemporary Issues**” (proposal and final report): up to 1 point
 - ◆ Section on “**Multi-disciplinary Teams**” (proposal and final report): up to 2 points
 - ◆ Section on “**Communications**” (semester project work, meetings and minutes taken, weekly reports, and class assignments): up to 3 points