

# AME 3623: Project 3 Group Grading Rubric

February 28, 2017

Group number:

Team member names:

Team member claiming software component:

## **Implementation: 35 points**

### **Circuit 10 points**

- (10) The circuit includes all required components (two Sharp distance sensors).
- (5) One component is missing or not connected properly.
- (0) No components are connected properly.

### **Camera query function: 10 points**

- (10) Fully meets the given specification.
- (5) Fails to meet one aspect of the specification.
- (0) Fails to meet two or more aspects of the specification.

### **compute\_chassis\_motion(): 10 points**

- (10) Fully meets the given specification.
- (5) Fails to meet one aspect of the specification.
- (0) Does not meet the given specification.

### **Component 6 loop: 5 points**

- (5) Fully meets the given specification.
- (3) Fails to meet one aspect of the specification.
- (0) Does not meet the given specification.

## **Demonstration: 25 points**

### **Reported distances: 25 points**

- (25) All three dimensions (X/Y/theta) are reporting appropriate values.
- (17) Two dimensions are working only or the reported distances are not well-calibrated.
- (9) Only one dimension is working or the reported distances are poorly calibrated.
- (0) The reported distances do not reflect test conditions.

**Documentation: 40 points**

**Project documentation: 5 points**

- (5) All required project-level information is given at the top of the INO and H file(s), including: project number, date, group number, group members, and the group member responsible for the code.
- (3) One required piece of information is missing.
- (0) Two or more required pieces of information are missing.

**Function header documentation: 15 points**

- (15) All functions are documented with a high-level description, a description of each of the parameters, and a description of the return value (where appropriate).
- (10) Function documentation is missing one component.
- (5) Function documentation is missing two components.
- (0) Function header documentation is missing three or more components.

**In-line documentation: 10 points**

- (10) Function includes all appropriate in-line documentation (“appropriate” means that you capture the logic of a line of code or group of lines)
- (5) Some in-line documentation is missing.
- (0) No in-line documentation is given.

**Data/graphs: 10 points**

- (10) The data is organized as required, and the graphs are submitted and show correct data, title, and axis labels (including units)
- (7) There is a problem with one of the graphs or the raw data are missing.
- (5) There is a problem with one of the graphs and the raw data are missing.
- (0) There are problems with more than one graph and the raw data are missing.