

# AME 3623: Project 6 Group Grading Rubric

March 30, 2016

Group number:

Team member names:

Team member claiming software component:

## **Implementation: 35 points**

### **read\_rotation\_rate: 15 points**

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

### **derivative\_control: 10 points**

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

### **main(): 10 points**

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

**Demonstration: 30 points**

**Rotation rate display: 10 points**

- (10) The rotation rate is reflected by the LEDs.
- (5) There is one problem with the rotation rate display.
- (0) The LEDs do not reflect rotation rate.

**Damping controller: 10 points**

- (10) The damping controller resists rotations in both directions.
- (5) The damping controller only partially works.
- (0) The damping controller does not work.

**Detection of rotation: 10 points**

- (10) The program properly detects when to stop ramping up the middle fan thrust.
- (5) The program responds to rotation of the craft, but responds late.
- (0) The program does not use rotation rate to stop the ramping of the middle fan thrust.

**Documentation: 35 points**

**Project documentation: 5 points**

- (5) All required project-level information is given at the top of the C 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) One function is not documented properly.
- (5) Two functions are not documented properly.
- (0) Function header documentation is not given.

**In-line documentation: 15 points**

- (15) All functions include appropriate in-line documentation. (“appropriate” means that you capture the logic of a line of code or group of lines)
- (10) One function is missing in-line documentation.
- (5) Multiple functions are missing in-line documentation.
- (0) No in-line documentation is given.