

# AME 3623: Project 6 Group Grading Rubric

April 3, 2020

Group number:

Team member names:

Team member(s) claiming software component:

## **Implementation: 35 points**

### **imu\_step(): 5 points**

- (5) Fully meets the given specification, including updating the IMU and giving the user the opportunity to calibrate.
- (3) Fails to meet one aspect of the specification.
- (0) Does not meet the given specification.

### **report\_step(): 5 points**

- (5) Fully meets the given specification.
- (0) Does not meet the given specification.

### **compute\_orientation\_error(): 10 points**

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

### **deadband\_and\_saturation(): 10 points**

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

### **pd\_step(): 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: 30 points**

**Rotation display: 15 points**

- (15) The orientation is reflected by the LEDs.
- (8) There is one problem with the orientation display.
- (0) The LEDs do not reflect orientation.

**Position controller: 15 points**

- (15) The position controller pushes the craft toward the goal.
- (8) The position controller only partially works.
- (0) The damping controller does not work.

**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) Multiple 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.