

AME 3623: Project 9 Group Grading Rubric

April 16, 2018

Group number:

Team member names:

Team member claiming software component:

Implementation: 35 points

Low-level sensing and control: 15 points

- (15) Sensing and control functions are accessible to the **fsm_task** through global variables, including the distance and IMU sensors, and control of the goal orientation and lateral velocities.
- (8) Fails to meet one aspect of the specification.
- (0) Does not meet the given specification.

Finite State Machine: 20 points

- (20) Fully meets the given specification, including the start-up and stopping steps.
- (14) Fails to meet one aspect of the specification.
- (7) Fails to meet two aspects of the specification.
- (0) Fails to meet three or more aspects of the specification.

Demonstration: 30 points

Start Up: 10 points

- (10) The hovercraft generates the start-up sequence, including ramp-up and detection of rotation.
- (5) There is one problem with the sequence
- (0) The hovercraft cannot complete this part of the task.

Motion: 10 points

- (10) The hovercraft moves forward, turns and moves forward again.
- (5) There is one problem with the sequence.
- (0) The hovercraft cannot complete this part of the task.

Shut Down: 10 points

- (15) The hovercraft detects the second wall, stops and shuts down all fans.
- (5) There is one problem with the sequence.
- (0) The hovercraft cannot complete this part of the task.

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.
- (4) One required piece of information is missing.
- (0) Two or more required pieces of information are missing.

Function header documentation: 10 points

- (10) 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).
- (7) One function is not documented properly.
- (4) Multiple functions are not documented properly.
- (0) Function header documentation is not given.

In-line documentation: 10 points

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

FSM Diagram: 10 points

- (10) The FSM diagram is complete and is consistent with the code implementation.
- (5) The FSM diagram is not complete or it is not consistent with the code implementation.
- (0) The FSM diagram is incomplete and it is not consistent with the code implementation.