AME 3623: Project 5 Group Grading Rubric

March 9, 2020

Group number:

Team member names:

Team member claiming software component:

Implementation: 35 points

Circuit: 5 points

(5) The IMU is connected properly to the circuit.
(0) The IMU is not connected properly.

set_forces_and_torques: 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: 10 points

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

fsm_step: 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.

Central fan: 10 points

(10) The central fan turns on/off beginning/end of the control period.
(5) The central fan only partially works.
(0) The program does not properly set the state of the central fan.

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.