

AME 3623: Project 8 Group Grading Rubric

April 9, 2015

Group number:

Team member names:

Team member(s) claiming software component:

Implementation: 35 points

pd_control(): 15 points

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

main(): 20 points

- (20) Fully meets the given specification, including: waiting properly for switch presses, displaying rotation rate and heading error at all appropriate points in the code, controlling heading and controlling heading with forward thrust.
- (14) Fails to meet one aspect of the specification.
- (7) Fails to meet two aspects of the specification.
- (0) Does not meet the given specification.

Demonstration: 30 points

Orientation error and rotation rate display: 10 points

- (10) The orientation error and rotation rate are reflected by the LEDs.
- (5) There is one problem with the display.
- (0) There are more than two problems with the display.

PD controller: 10 points

- (10) The PD controller pushes the craft toward the goal and is well-tuned.
- (5) The PD controller only partially works.
- (0) The PD controller does not work.

Forward thrust: 10 points

- (10) The program properly generates the short-term forward thrust.
- (5) The program generates forward thrust, but the timing is incorrect.
- (0) The program does not generate the required forward thrust.

Documentation: 35 points

Function header documentation: 20 points

- (20) 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).
- (15) One function is not documented properly.
- (8) 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.