AME 3623: Project 2 Group Grading Rubric

March 25, 2013

Implementation: 35 points

Circuit: 6 points

(6) The circuit includes all required components (properly connected), including: gyro, distance sensors, LED bar, and switch (to make 2 switches).

(4) One component is missing or not connected properly.

(2) Multiple components are missing or not connected properly.

(0) No components are connected properly.

get_gyro_rate(): 6 points

(6) Fully meets the given specification.

(4) Fails to meet one aspect of the specification.

(0) Does not meet the given specification.

display_rotation_rate(): 6 points

(6) Fully meets the given specification.

(4) Fails to meet one aspect of the specification.

(0) Does not meet the given specification.

get_ir_distance(): 6 points

(6) Fully meets the given specification.

(4) Fails to meet one aspect of the specification.

(0) Does not meet the given specification.

display_distance(): 6 points

(6) Fully meets the given specification.

(4) Fails to meet one aspect of the specification.

(0) Does not meet the given specification.

main(): 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/Presentation: 30 points

Switches: 5 points

(5) Switches determines display of rotation rate, or distance from the IR sensors.

(0) Switch does not function properly.

Distance display and print: 5 points

(5) Distance display and print are correct and accurate (within 1 cm).

(3) Distance display and print has one problem.

(0) Distance display and print does not function properly.

Rotation rate display and print: 5 points

(5) Rotation rate display and print works properly.

(3) Rotation rate display and print have one problem.

(0) Rotation rate display and print do not function properly.

Presentation: 15 points

(15) Presentation contains all required components, including: a statement of the team member responsibilities, including personal components; the logic of: get_gyro_rate(), display_rotation_rate(), get_ir_distance(), and display_distance(); and the circuit diagram.

(11) One component is missing.

(5) More than one component is missing.

(0) No presentation.

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.