

Date: 04/07/2014

Group Number and Name	DEC14-08 / PUMA ROBOT
Client/Advisor	Dr. Greg R. Luecke
Attendees/Role	Alex Grieve / Webmaster Matt Bogenschultz / Lead Nhat Pham / Communications Zeyu Zhang/ Key idea holder

Past week accomplishments

What was done, who did it, and when it was done

A: Matt, Alex, and Zeyu discussed the PID controller and laid out a basic simulink model.

B: The group as a whole worked and finished the second version of the project plan.

C: The group met with Luecke and one of his graduate students, Don, and established a computer workstation to house our project.

D: Parts for H-bridge prototype are still on the way.

E: Nhat will implement a circuit for the motor's break, by using a single sided H-bridge. Utilizing the enable bit that will be given to the logic circuit, the enable bit will also supply 24v to the brake motor input.

F: Alex got a hold of some C code that illustrates how to read and write data to the MOTENC-Lite boards. It will be an excellent starting point for the C library we intend to build.

Plan for coming week

What to do, who, and when should it be done

- A: Meet up with Luecke or Don and discuss bit to radian conversion and proportional gain calculation.
- B: Nhat will breadboard the H-Bridge and it's logic as soon as parts arrive.
- C: Alex will install the MONTEC-Lite boards and run the test code he found as soon as the boards arrive in the mail.

Pending Issues

- A: Wwhile using the “to file” and “from file” simulink blocks, we are unsure how to call the file correctly.
- B: Calculating proportional gain theoretically.
- C: H-bridge parts have not arrive, high chance of parts come in early this week.
- D: MOTENC-Lite boards have not arrived, not sure when they will be in.

Individual Contributions

- A: See “Past Week Accomplishments” section

Individual hourly Contributions

<u>NAME</u>	<u>Hours this week</u>	<u>HOURS Cumulative</u>
Matthew Bogenschutz/ Leader	7	42

Nhat Pham / Communication	7	45
Alex Grieve / Webmaster	7	59
Zeyu Zhang / Key-Idea-holder	6	32

Comments and extended discussions: