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Week 11

Purpose:

The purpose of this report is to highlight the progress that our team has made towards initiating our production design for our senior design project (F10-19).

Progress:

Throughout week 11, our group has focused on continuing our schematic design and software implementation. We have completed incorporating the appropriate symbols into the schematic design document and have implemented the schematic design for the microprocessor, the LCD, and the temperature sensor unit. We are hoping to start a PCB design following Thanksgiving break. We have also continued working on our design draft document due in 4 weeks.

Completed:

1. Selected and ordered gear motor: <http://www.superdroidrobots.com/shop/item.aspx?itemid=1036>
2. Accurate control of motor within +-20 degrees using test gear motor and Arduino
3. 25 % of schematic design
4. 25% of software development

Issues:

1. abnormal spike in logic input voltage when gearmotor turns ccw (possible problems with L298N motor driver?)

Goals for this week:

1. Investigate into abnormal voltage spikes
2. Port code to new micro-controller
3. If gear motor comes in early, will work with Lee to construct platform
4. Complete 50 % of the schematic design for the overall system
5. Complete 50 % of software development for basic functionality of the user interface system