Benjamin Jusufovic

Curtis Mayberry

Thinh Luong

Ben Cao

Week 9

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 9, our group has focused on starting our schematic design and software implementation. We have received several devices from our distributers and are ready to continue testing in order to assure good quality design implementation of these devices. Starting Monday, 11-1-2010, our group will begin the schematic design and software implementation for the overall system. We have worked on implementing the motor driver system and are going to run one more round of torque measurements before we finalize on the motor. However, the motor driver circuitry has been selected and has been implemented to insure functionality and help us decide on the appropriate design implementation.

Goals completed:

1. Reorganized the circuit for LMD18200T for better noise performance
2. Received long range wireless transmitter units and began long range testing of the devices
3. Began software development of LCD system
4. Started to familiarize ourselves with the schematic design software

Goals for next week:

1. Achieve speed, direction, and turning motor control using L298N with Arduino mcu
2. Confirm the index pulses from the gear motor encoder
3. Retest torque requirement with torque wrench
4. Complete 50 percent of the schematic design for the overall system
5. Complete software development for basic functionality of the overall system
6. Ensure that the range of our wireless devices is appropriate in terms of project scope