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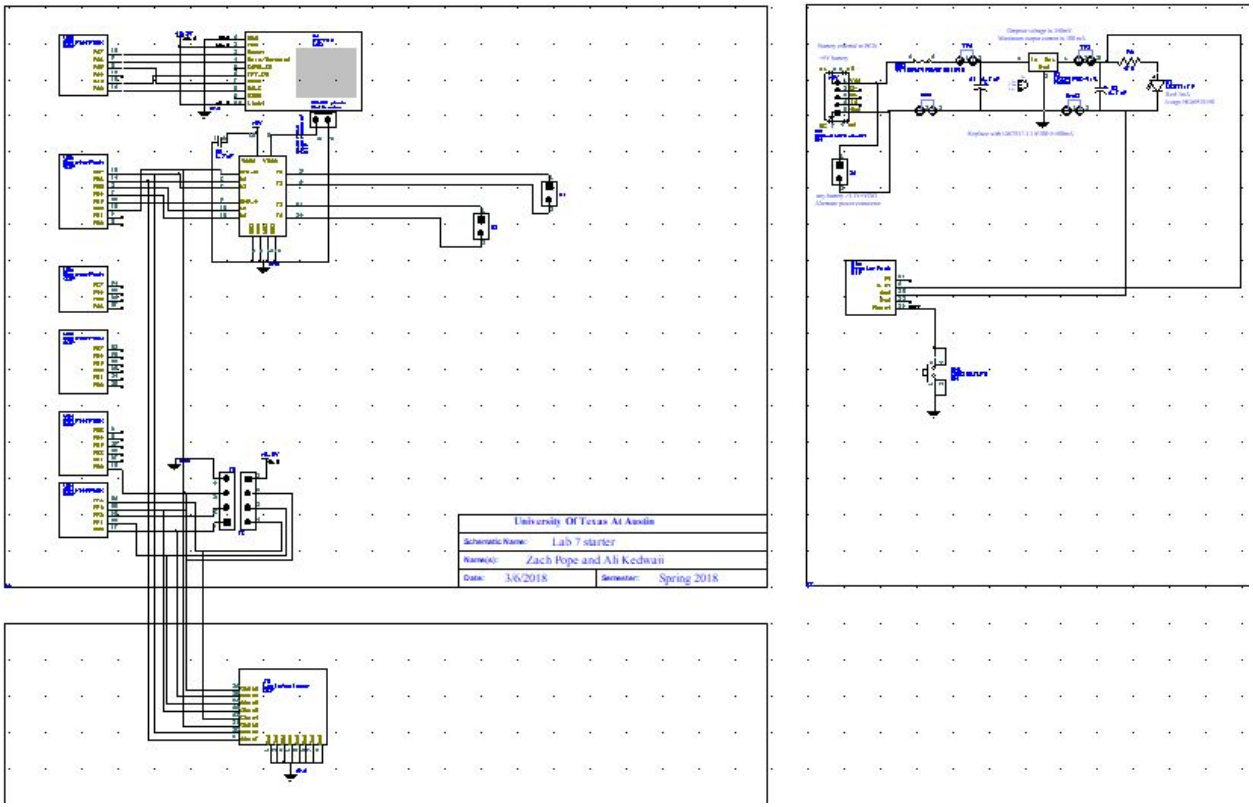
EE445L Lab 11 Report

Deliverables (exact components of the lab report)
A) Objectives
2-page requirements document **Separate page**
B) Hardware Design
Detailed circuit diagram of the system (from Lab 7)



C) Software Design (no software printout in the report)
Briefly explain how your software works (1/2 page maximum)
We have software modules for the controller, RF/UART, and the motors. The controller reads values from the ADC pins, and logic converts those values into a direction value and speed value. These parameters are periodically obtained and sent from one TM4C via RF/UART. The RF modules are communicated with using SSI, while the UART connection is directly from one TM4C to the other. Once the data has reached the second TM4C, it interprets the data to call methods from the motor module to change the speed and direction of the motors. This allows the car to change speed and direction.
D) Measurement Data
Include data as appropriate for your system. Explain how the data was collected.
E) Analysis and Discussion (none). The YouTube video is required **Videos sent to Saad**