Lab 5 Demo

The Lab 5 demo should include:

– Complete transmitter circuit, including: data signal generator (can be bench signal generator, or a 555 timer, or another Arduino), modulator circuit (using 555 timer), and the 434MHz transmitter board

– Complete receiver circuit, including: 434MHz receiver board, filter, peak detector, and comparator

– Arduino code used to execute commands based on data signal received

As a team, be prepared to demonstrate wireless remote control of more than 1 function (e.g. start/stop, move forward, move back, turn left, turn right) accomplished by changing duty cycle of the data signal on the transmitter side. Upon request, be prepared to show LTspice schematic of the receiver circuitry and Arduino code.

Individually, be prepared to answer questions about circuit design and operation of the transmitter and the receiver.