

## Computer Systems Engineering Technology CST 417 – Embedded Networking

Lab 7 – Client/Server System	Name	
Fall 2014		Due Date: 12/5/2014

Instructor: Troy Scevers Possible Points: 20

## Instructions

In this lab we will do our final modifications to the UDP client/server. You will team up with everyone for this lab. Together you will come up with a custom protocol to run over our UDP client and server. This protocol must be more comprehensive than just sending a number. It could be something like toggle led # with a CRC or something. The messages should be sent from the client to another persons board server on button release (could be multiple buttons). When the server receives this message it should toggle the appropriate LED's on its board (IE if button 1 was pressed toggle LED 1). Document your Protocol and turn it in along with your code. You will still set ports and addresses through your web interface. So as an example Cody will press button 1 and release it on his board, on the release it will send a UDP packet to Kelvin's board. Kelvin's server will interpret this packet and toggle LED 1 on his board. Kelvin can then hit Button 2 on his board, which will send a packet to Cody's board. This will cause Cody's board to toggle LED 2. Any persons board should be able to connect to any other persons board.