

Memo #4

To: ECE 303

From: David Schmidt

CC: Other recipients

Arduino Mega 2650 Lab 4 Serial communication for photo resistant diode

Task: To create a Photo resistant LED program that communicates serial data between MATLAB and Arduino software using a 9600 Baud rate. 3 different graphs will be plotted on MATLAB for Photocell resistance, Current and Voltage over a displayed Duty Cycle percentage which increased .01% per cycle

Equipment: Mega Arduino 2650 starter kit

1-1k and 1-10k ohm resistor

Jumper wires

1 Photo cell

1 5v LED

Bread Board

CODE: Code is on the following pages and the Arduino sketch will be attached with the submission

