Drexel University

# 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

A close-up of a circuit board

Description automatically generated with low confidence