Graphical user interface, text, application, chat or text message

Description automatically generated

**[Project Name]**

ECEN 106 – Computer Systems Final Project

[Student Name], [Date]

[Replace everything between square brackets with your own writing. Delete all instructions in brackets. Do not leave any of the square brackets. **Reminder: This report *must* be in your own words. Do not have an A.I. tool such as ChatGPT write this report.**]

**Explanation: What my project does:**

[Paragraph 1: Give an overview of what your project is or what it is used for.]

My project is used for measuring light and using LEDs to detect how much light the light sensor is picking up. It could be used for setting off something due to taking in light such as a crop water system that turns on if it senses daylight.

[Paragraph 2: Provide instructions on how to use/operate your project.]

You can use it for multiple things but the basis is that the less light that the sensor has the less LED will be on. In the example video I put my finger over the sensor so it had no light coming in.

**Explanation: How my project works:**

[Paragraph 1: Describe *how* your project is able to do what it does. For example, what are the input devices and output devices and how do they send/receive signals? You may have to do some research.]

The input device is the light sensor and the output is the LED lights. The light sensor sends a signal by showing lower feedback to the Arduino which

[Paragraph 2: Describe the code. If you don’t understand the code, ask an A.I. tool such as ChatGPT or Gemini to describe the code to you in simple terms. Then, rewrite its response in your own words.]

**Hardware: Wiring diagram**

[Include a wiring diagram or schematic of your project. (The diagram should show how the wires connect the various components – it is not a real-life photo.) You may use a tool like TinkerCAD to create the diagram. If you copy the diagram from somewhere else, you must give credit by citing the source.]

**Hardware: Photo(s)**

[Take a photo of your project with everything wired up. Include the picture here.]

**Software: Arduino sketch**

[Include here the code you are using. You must include the actual code, and not just a link to the code.]

**Software: Citation**

Code was from project 18

**Discussion:**

[Paragraph 1: Write a paragraph on problems you had and how you resolved them.]

[Paragraph 2: Write a paragraph on what you learned while doing the project.]

[Paragraph 3: Write a paragraph on what you would do to make the project more impressive/fun if you had more time, skills, and parts.]