SECOND INTERFACE

NICKEY AND HARSHIL

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What we hope to achieve

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EXPECTATIONS & GOALS

Software communication between user and lab over long distances

ELECTRICAL COMPONENTS

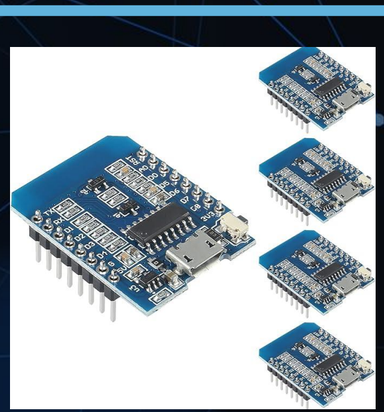
Equipment we need to complete our goals

ARDUINO MEGA

Amazon Link

ESP32

Amazon Link

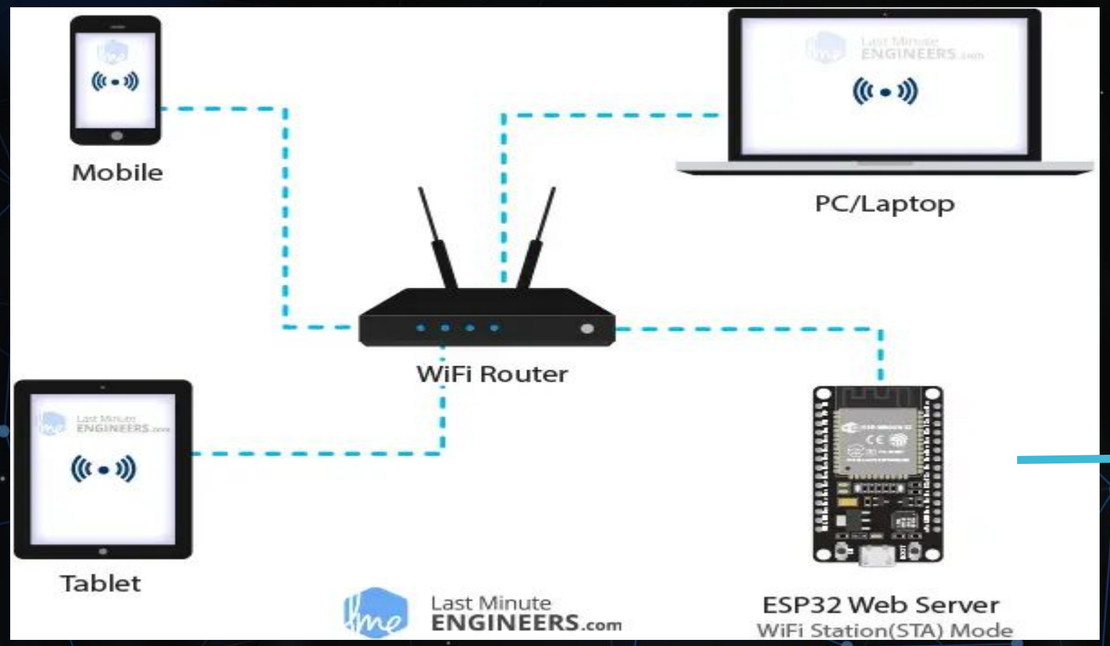


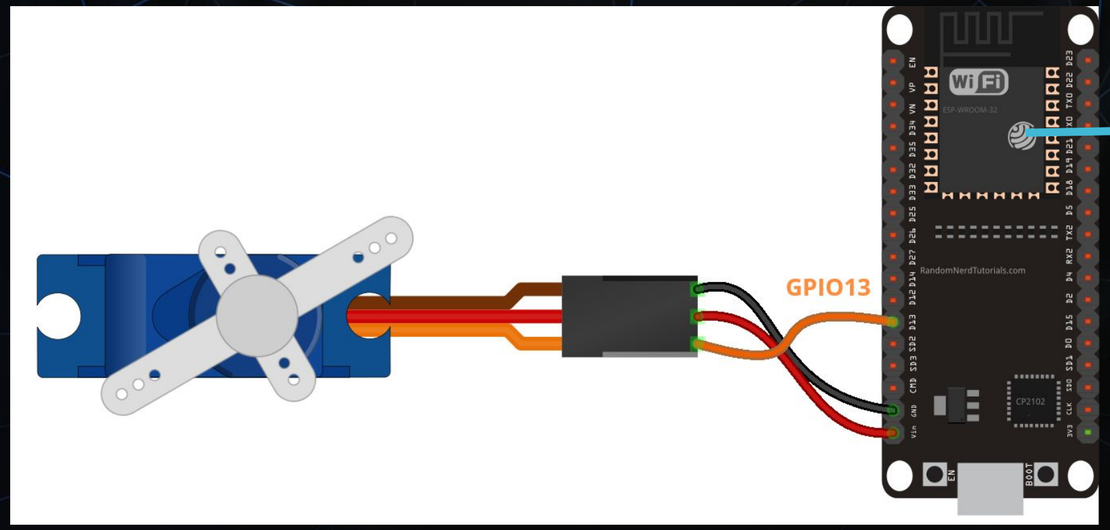
ESP8266 (alt.)

Amazon Link

COMPUTER

IMPLEMENTATION





1. Setting Up the Wifi Module in Arduino IDE

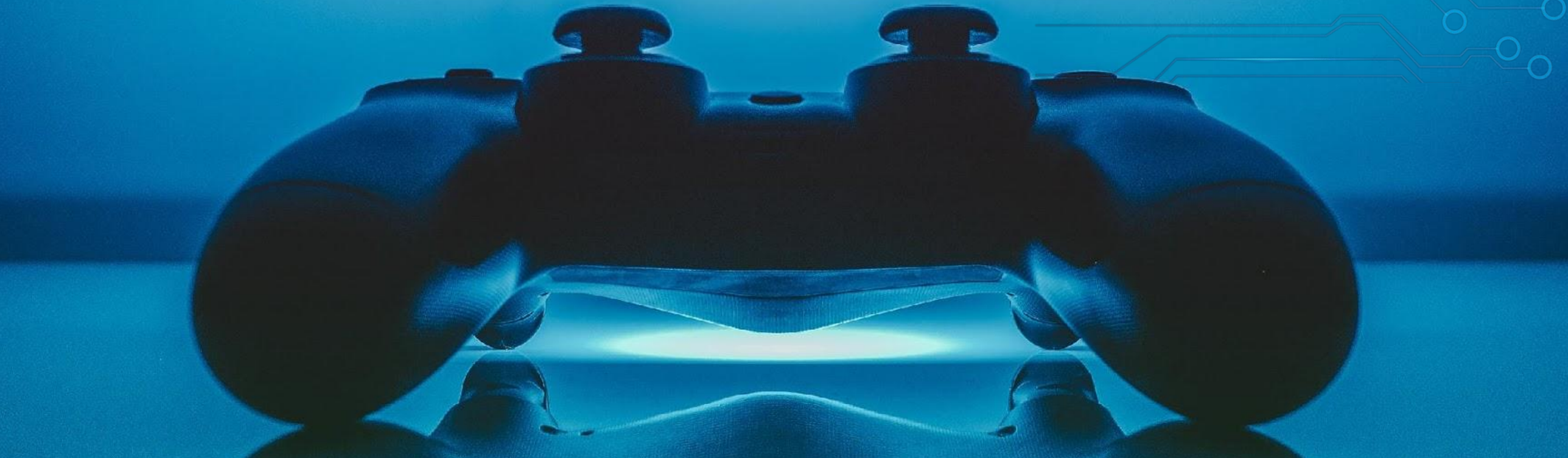
2. Creating a Functional Web Server

3. Integrating GPIO for Hardware Control

4. Testing and Refining the System

FUTURE RESEARCH

Connecting cameras, robotic arms,
buttons, controllers, etc



THANK YOU!

We will continue to work on this project over break! ^.^