Smart drip - IoT project

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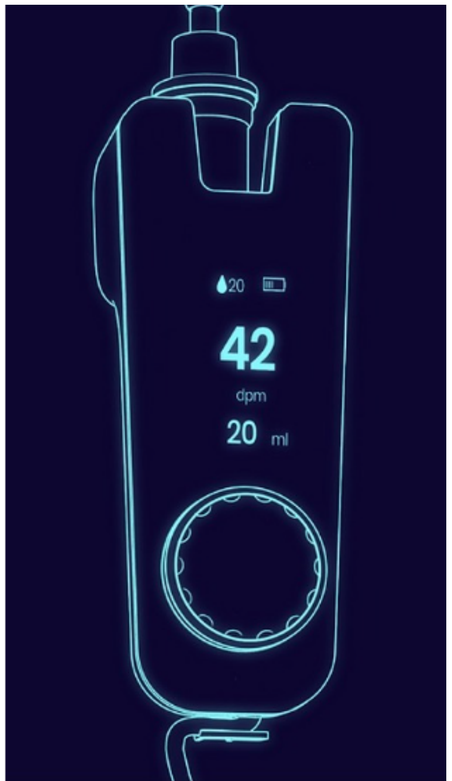
Introduction and Abstract

Smart drip for medical use which measures the drip rate of fluid of the IV tube. The measured drip rate is displayed on a webpage.
The drip rate can be changed from the webserver remotely



Methodology

Hardware setup: Assembled the hardware components including the Esp 32 module
OLED screen, Servo motor, and drip sensor.
software setup: Written and uploaded the code to the Esp 32 module to read data from the drip sensor and display it on the OLED screen. Also written code to control the servo motor for controlling drip rate.
Webpage development:
Developed a webpage to monitor the system. The webpage displays real-time data from the drip sensor and allow users to control the system remotely.

Results/Findings

Offered a cost-effective solution that provides control and measurement of the drip rate of fluids administered to the patient

Conclusions

In conclusion, the smart drip project successfully demonstrated the use of IoT technology to monitor and control a medical drip system. By using an Esp 32 module, OLED screen, and drip sensor, the system was able to accurately measure and display real-time data.