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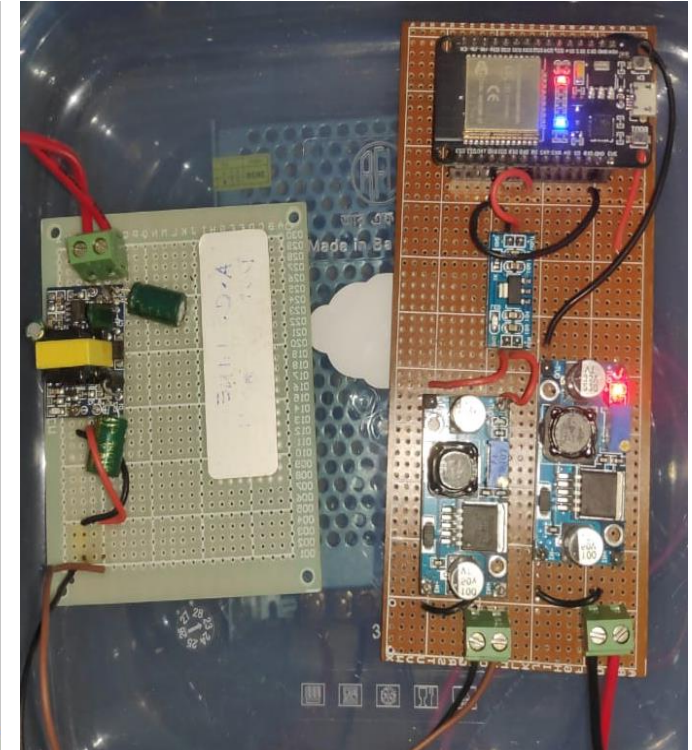
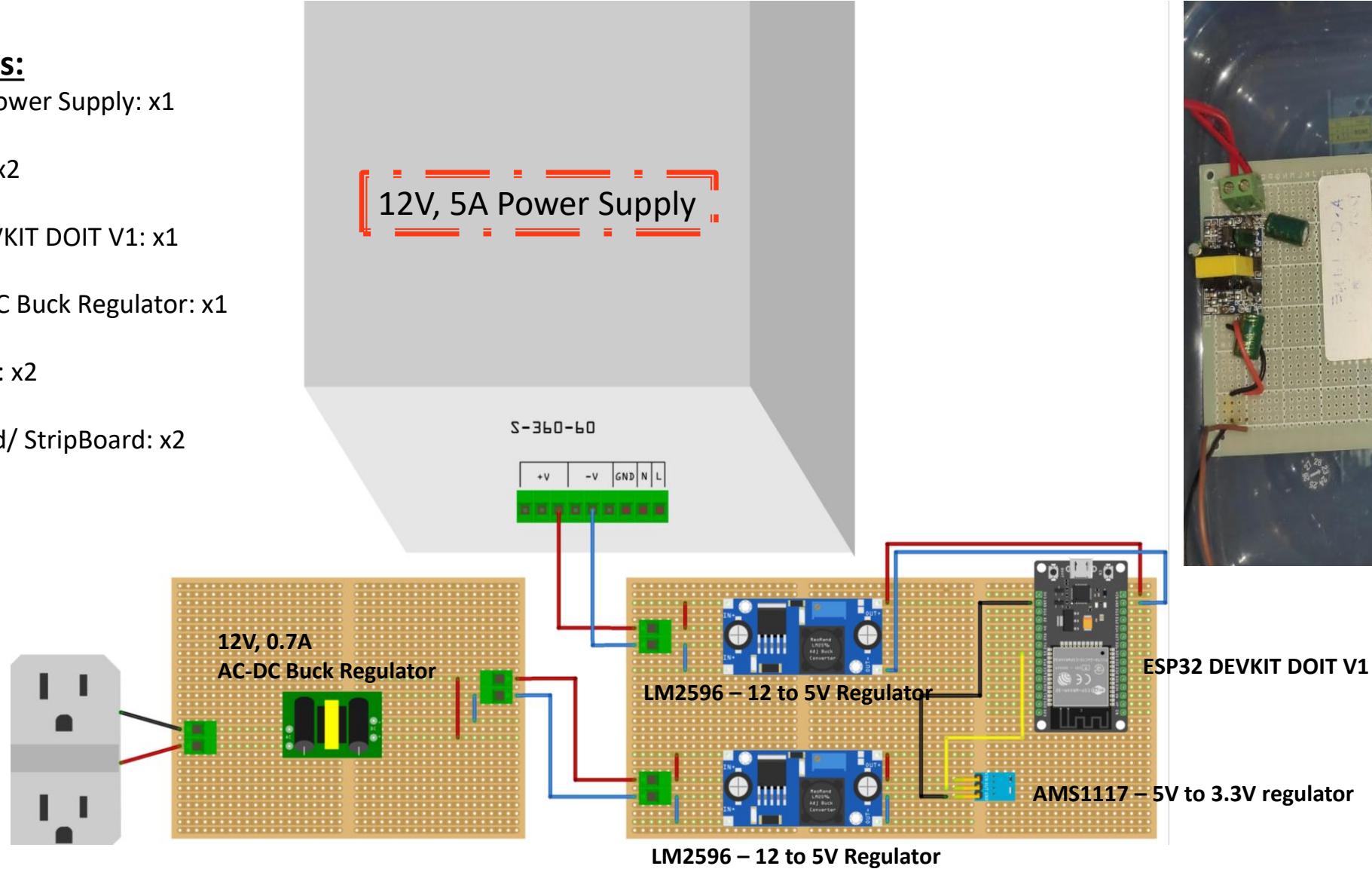
Body Liner Counting @ Thermoforming Machine No#3

Project Performed by: Abu Bakr Siddique

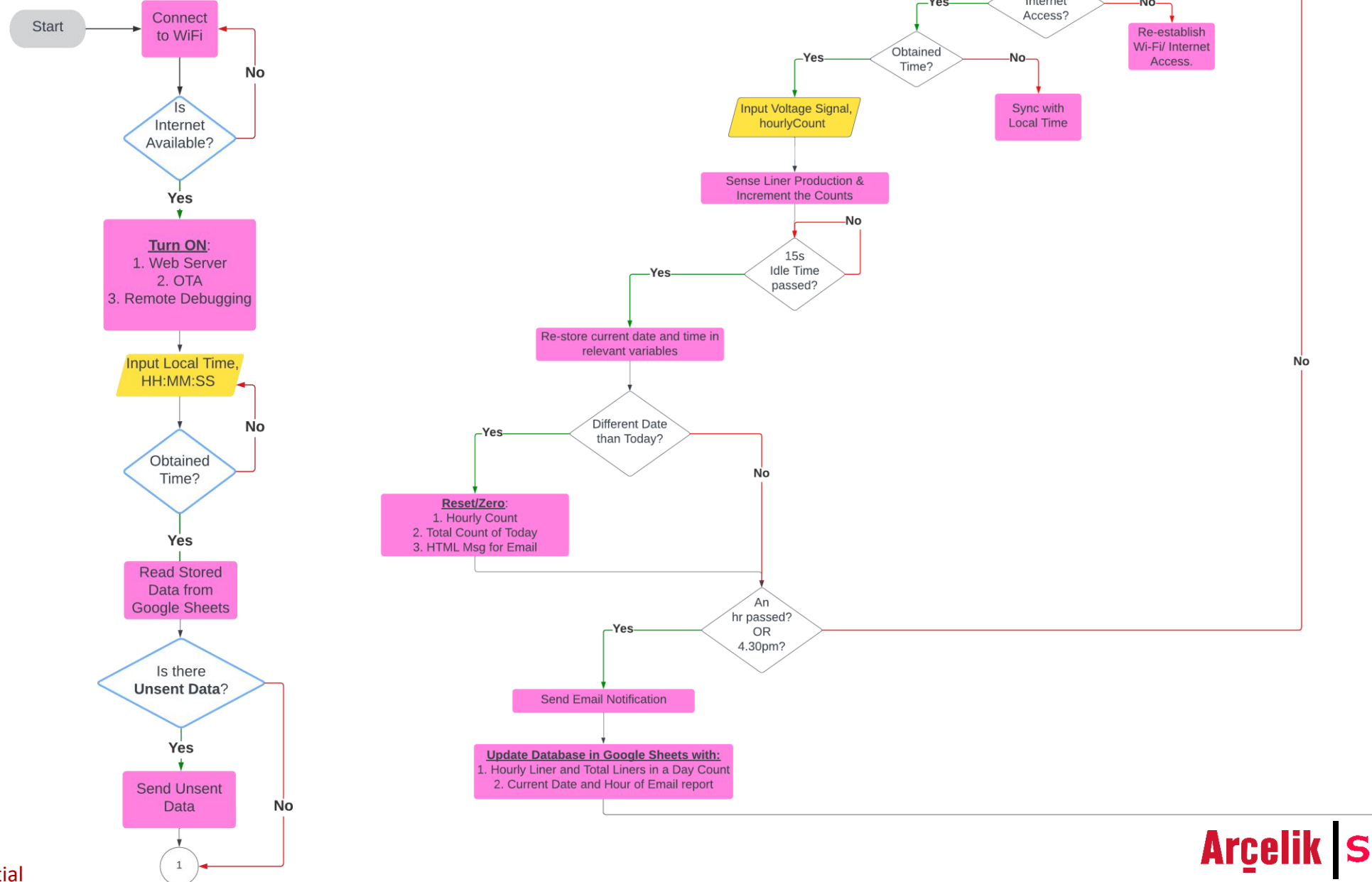
Hardware Overview

List of Items:

1. 12V, 5A Power Supply: x1
2. LM2596: x2
3. ESP32DEVKIT DOIT V1: x1
4. 12V AC-DC Buck Regulator: x1
5. AMS1117: x2
6. Veroboard/ StripBoard: x2
7. Wires

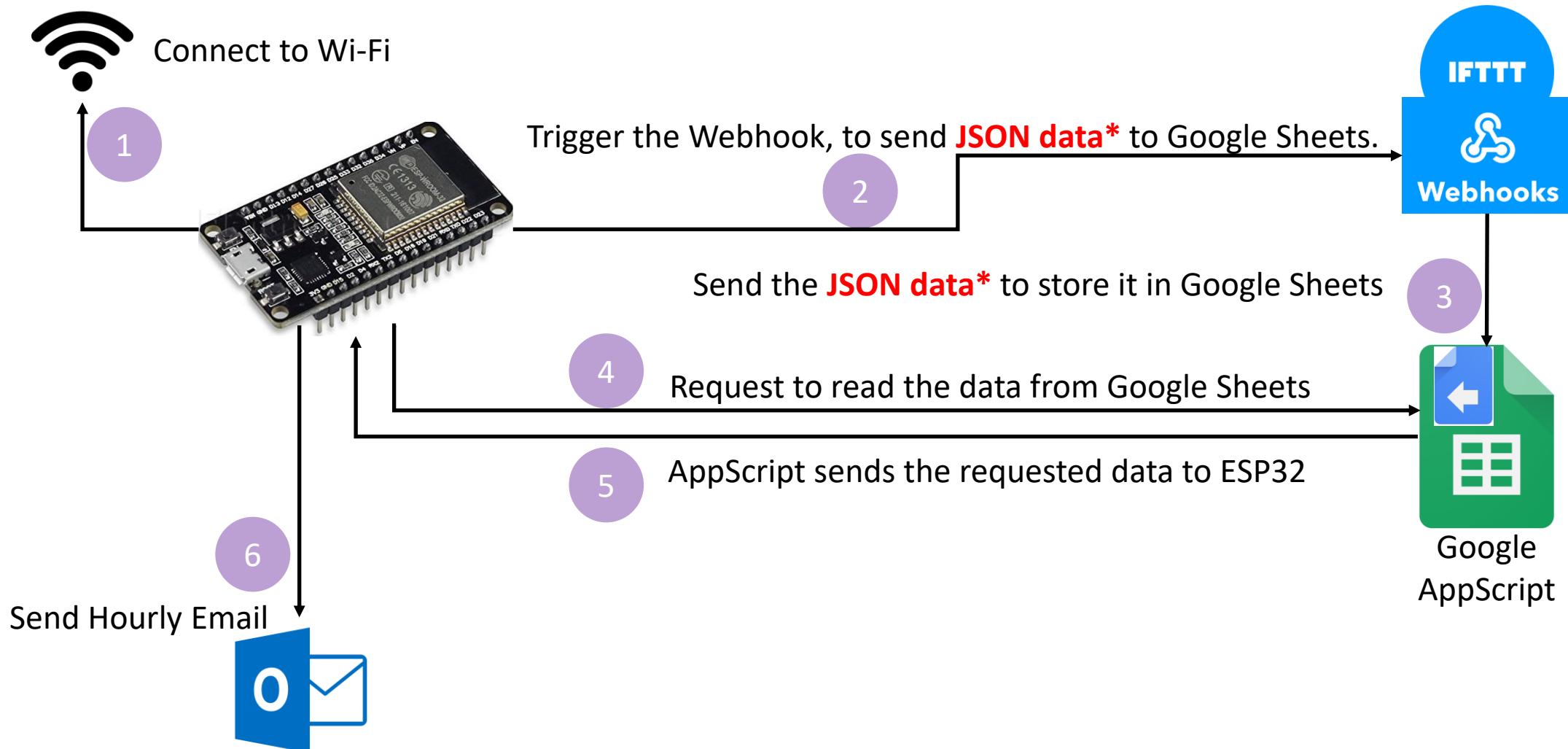


Flowchart



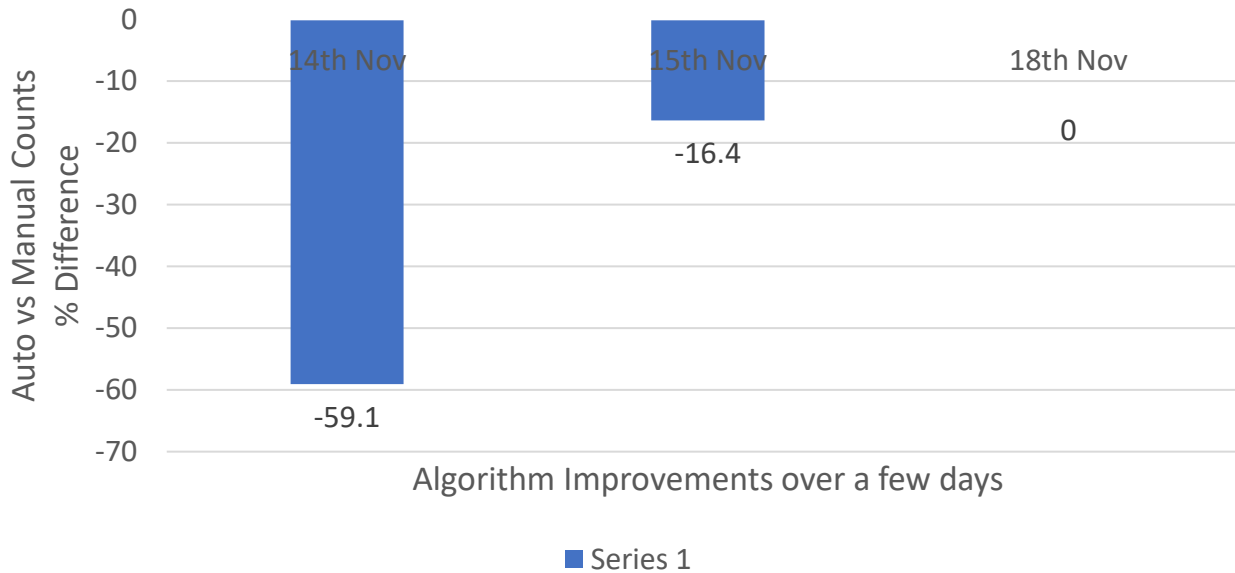
Pipeline Overview

End-to-End IoT Data Pipeline – ESP32, Google Sheets, IFTTT and AppScript



Field-Test Results

Auto Vs Manual Counts % Diff. over few days



Pitfalls & Potential Problems:

1. Occasional Internet Connectivity



2. Test Runs = Additional **SFG*** Counts

V1 (-59.1%)



V2 (-16.4%)



V3 (0%) – may vary by 1 or 2 liners maximum

Output Overview

B

Body Liner Counter #3 <thermoformingreporter@gmail.com>

Sat 11/18/2023 10:00 AM

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18.11.2023: Total Liners Completed upto now = 44 units

Date	Start Time	End Time	Production (units)	Target	Delta
18.11.2023	07:07:34	08:00:00	0	22	-22
18.11.2023	08:00:00	09:00:00	22	22	0
18.11.2023	09:00:00	10:00:00	22	22	0

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Further Development

Avoid Counting Test Runs

Dashboard

Model-Based Counting System

Wastage Counting System

Collection of Data for Big Data Analytics



Dashboard Containing all the data