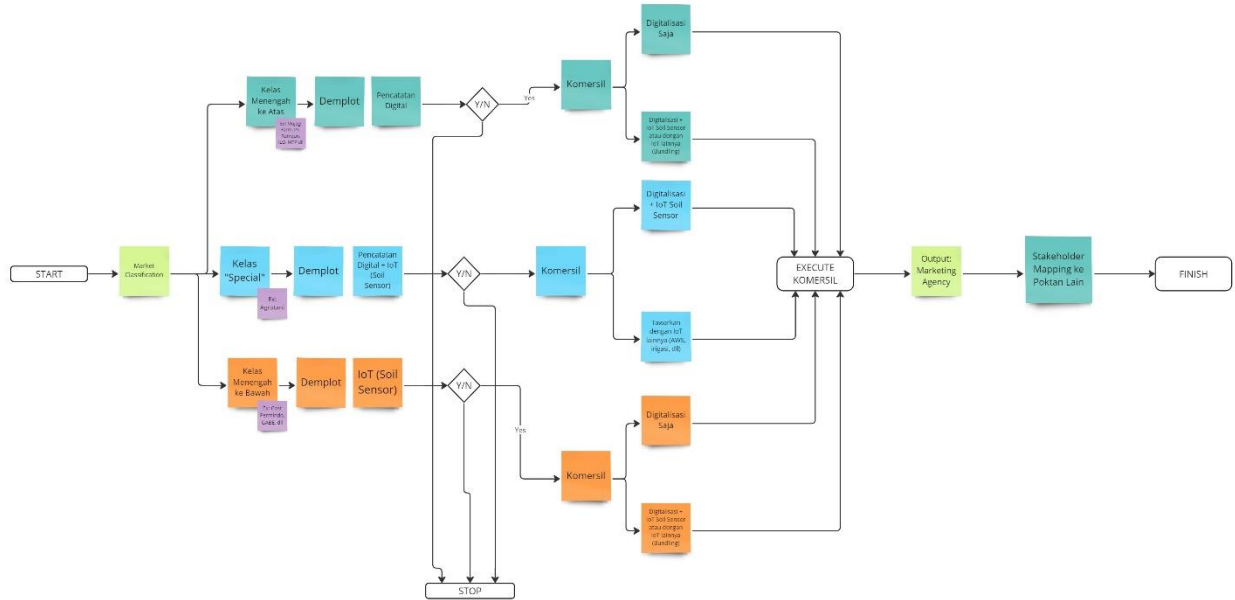# PORTOFOLIO

Human Resource Planning

Field Officer Planning

Tools: MIRO, Draw.io
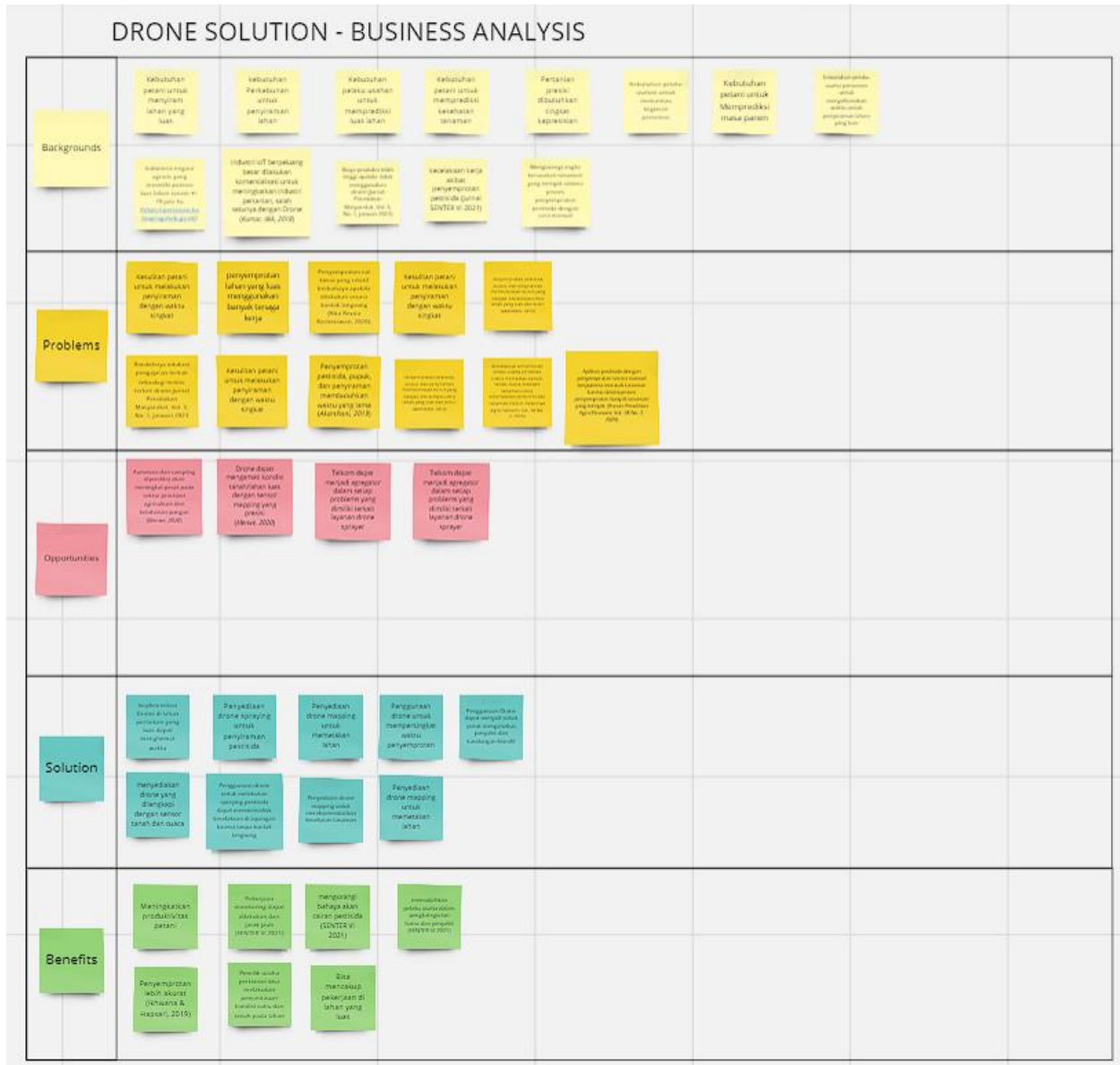

Internship Participants Resource Planning

Tool: MIRO

Business Model Canvas

Drone Product Solution
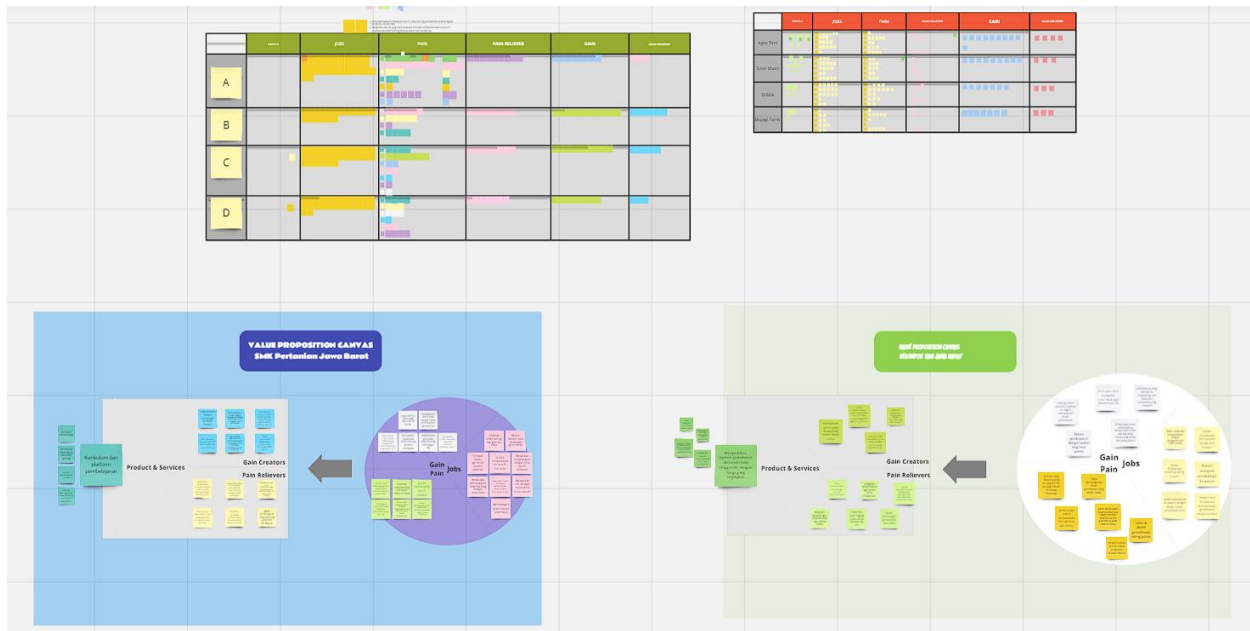
Tools: MIRO, Draw.io

Product Validation - Value Proposition Canvas

Product Validation Canvassing

Tool: MIRO

After Sales Service Mapping

Flow Process Transaction (End-to-End)

Tool: MIRO

2D Design Sketch (AutoCAD)

Floor Planning 2D Design

Tool: AutoCAD

Main Electrical Panel 2D Design

Tool: AutoCAD
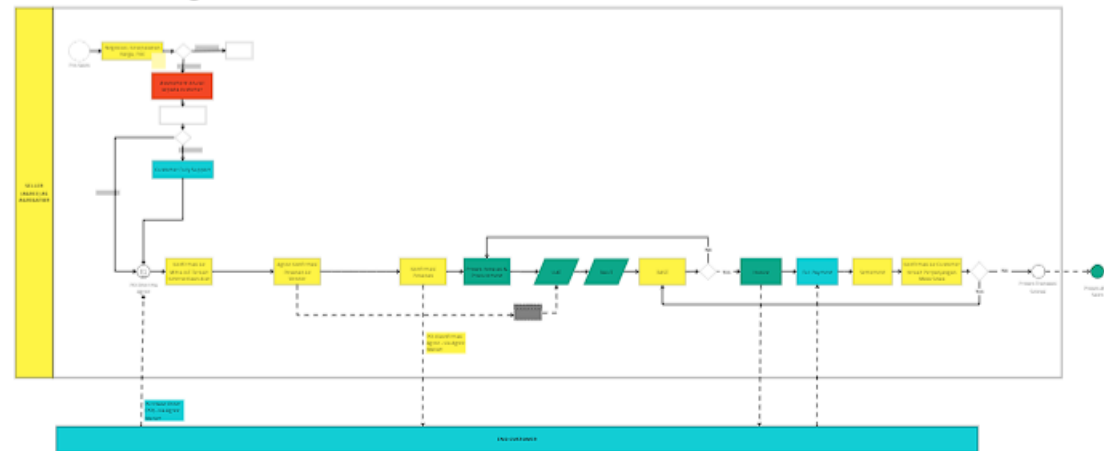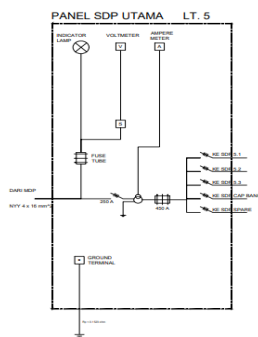
Programming

C/C++

Tools: Arduino IDE, Visual Studio Code

```
NRF_PZEMTX

 1  #include <SPI.h>
 2  #include <nRF24L01.h>
 3  #include <RF24.h>
 4  #include <SoftwareSerial.h>
 5  #include <PZEM004Tv30.h>
 6  #include <PZEM004T.h>
 7
 8  //PZEM004Tv30 pzem(10,11);   /// Software Serial pin 10 (RX) & 11 (TX) for arduino uno
 9  //PZEM004Tv30 pzem(&Serial2);  // (RX)PZEM004Tv30 -> Tx2Arduino ; (TX)PZEM004Tv30 -> Rx2ArduinoMega for arduio mega2560
10  //PZEM004Tv30 pzem2(&Serial3);  // (RX)PZEM004Tv30 -> Tx3Arduino ; (TX)PZEM004Tv30 -> Rx3ArduinoMega for arduio mega2560
11
12  //PZEM004Tv30 pzem(10,11);   /// Software Serial pin 10 (RX) & 11 (TX) for arduino uno
13  PZEM004T pzem(&Serial2);  // (RX)PZEM004Tv30 -> Tx2Arduino ; (TX)PZEM004Tv30 -> Rx2ArduinoMega for arduio mega2560
14  PZEM004T pzem2(&Serial3);  // (RX)PZEM004Tv30 -> Tx2Arduino ; (TX)PZEM004Tv30 -> Rx2ArduinoMega for arduio mega2560
15  IPAddress ip(192,168,1,1);
16  IPAddress ip2(192,168,1,1);
17
18  RF24 radio(7, 8);
19  //variabel millis
20  unsigned long tb1 = 0;
21  unsigned long tb2 = 0;
22  unsigned long tb3 = 0;
23  unsigned long tb4 = 0;
24
25  unsigned long tn1;
26  unsigned long tn2;
27  unsigned long tn3;
28  unsigned long tn4;
29  const byte address[] = "node1";
30
31  void setup() {
32    // put your setup code here, to run once:
```

HTML: Basic Website Design

Tool: Visual Studio Code
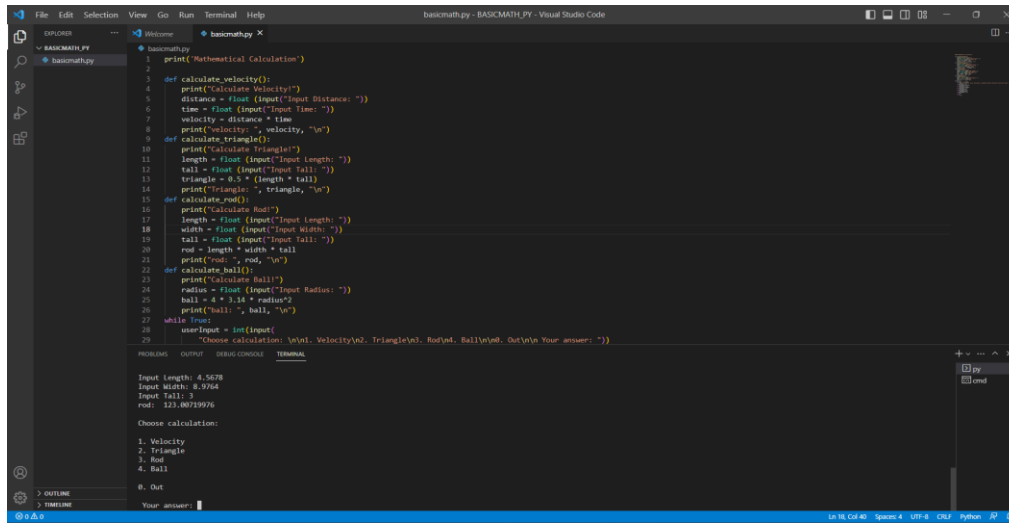
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22        </tr>
23        <tr>
24          <td>THIS IS MY PUBLICATIONS, CHECK THIS OUT!</td>
25        </tr>
26      </tbody>
27    </table>
28        <table border="1">
29          <thead>
30            <tr>
31              <td>TITLE</td>
32              <td>YEAR</td>
33              <td>DOI</td>
34            </tr>
35          </thead>
36          <tbody>
37            <tr>
38              <td>The Prototype of Smart Garden Fertigation System with Solar Photovoltaic System Based on IoT </td>
39              <td>2021</td>
40              <td>https://doi.org/10.1109/ICWT52862.2021.9678421</td>
41            </tr>
42            <tr>
43              <td>Data Logger System for Hybrid Renewable Energy System (HRES)</td>
44              <td>2022</td>
45              <td>https://doi.org/10.1109/ICWT55831.2022.9935404</td>
46            </tr>
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48              <td>Smart Medication Box Based on Android Mobile Application</td>
49              <td>2022</td>
50              <td>https://doi.org/10.1109/ICWT55831.2022.9935404</td>
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52            <tr>
53              <td>Supervisory System for On-Grid Solar Power Plant</td>
54              <td>2022</td>
55              <td>https://doi.org/10.1109/FORTEI-ICEE57243.2022.9972921</td>
56            </tr>
57          </tbody>
```

Python

Tools: Arduino IDE, Visual Studio Code

MATLAB

Tool: MATLAB, Simulink

- PSIM: DC-DC Converter