**TEAM 54**

**Julia (PCB)**

- Test #1: ESP32 Voltage

- Voltage will be read at the output of the buck converter that is wired to the ESP32.

- Criteria: The voltage read on the pcb by a multimeter will be within 5% of the simulations performed on WEBENCH.

- Test #2: VDDIO Voltage

- Voltage will be read at the output of the buck converter that is wired to the VDDIO pin of the camera.

- Criteria: The voltage read on the pcb by a multimeter will be within 5% of the simulations performed on WEBENCH.

- Test #3: VDDC Voltage

- Voltage will be read at the output of the buck converter that is wired to the VDDC pin of the camera.

- Criteria: The voltage read on the pcb by a multimeter will be within 5% of the simulations performed on WEBENCH.

- Test #4: VDD Voltage

- Voltage will be read at the output of the buck converter that is wired to the VDD pin of the camera.

- Criteria: The voltage read on the pcb by a multimeter will be within 5% of the simulations performed on WEBENCH.

- Test #5: Data Flow

- Using the oscilloscope, data flow will be read between the ESP32 and the camera.

- Criteria: There must be a waveform proving data is being transferred to the ESP32 from the camera.

**Blake (Microcontoller)**

- Test #1: WiFi Connection

- Microcontroller’s SSID will be seen over WiFi on any Laptop

- Test #2: Image Processing

- Example photo data will be processed to show accuracy

- Test #3: Receiving Image Data

- ESP-IDF command prompt will have a VoSPI packet printed in byte values to show accurate reception

**Erica (Web Application)**

- Test #1: Login Page/ Registration page

- When a user registers a new account it must show up in firebase. Incorrect login information should output an error message. Correct login information should direct the user to the overview page.

- Test #2: Overview page directs to correct “video stream”

- When the user clicks on a specific Model ID it should direct them to its respective video stream

- Test #3: Fetching Images

- Website properly fetches images in series and outputs the latest one at a rapid pace.

- Test #4: Drag and Drop UI works

- The user should be able to drag and drop boxes that represent the model IDs. When the user clicks on a specific box it should direct them to its respective video stream.