**HUCO Project Requirements:**

Hardware Design and Firmware Design for the Measurements of Current, Voltages on assembly line.

Requirements:

1. Current (AC/DC) Measurements:

Range: 0 – 20A

2. Current Measurements:

Range: 0 – 400mA

3. Voltage Measurements:

Range: 0 – 20Volts.

Hardware Units:

1.Arduino Due—32 bit ARM Cortex-M

2.Opamp + Instrumentation Amplifier(AD620) based cct design + Active Clipper cct

3.opamp based Current and voltage measurement systems.