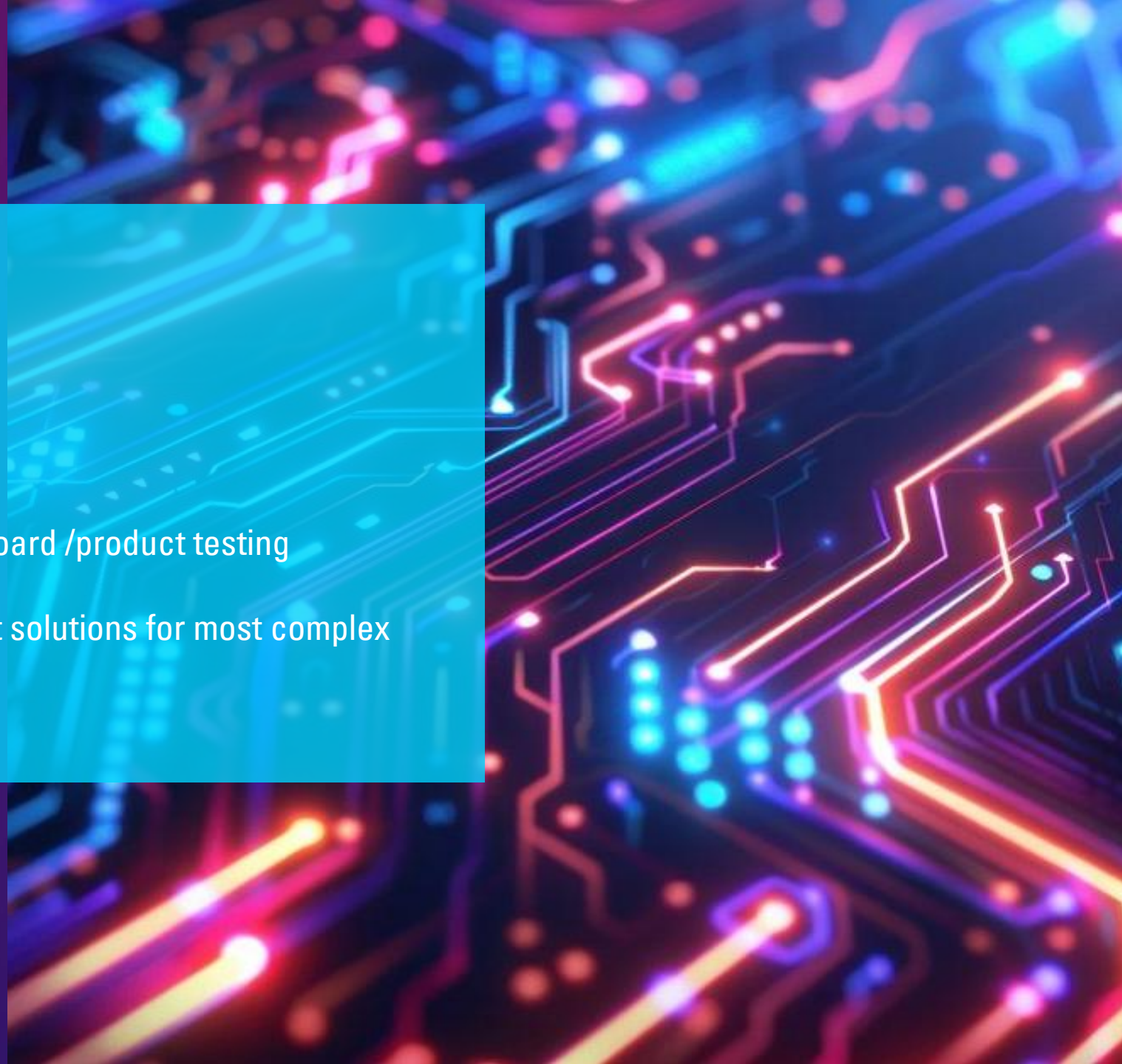
APEX TEST TECHNOLOGIES PVT. LTD.

QUALITY PCB TESTING, MADE AFFORDABLE

30+ YEARS
APEX
Quality PCB testing, made affordable

ABOUT US

- Established in 1995 at Bangalore, India
- The PCB Test fixture is an integral part of board /product testing
- Apex consistently deliverers state of the art solutions for most complex test interface problems

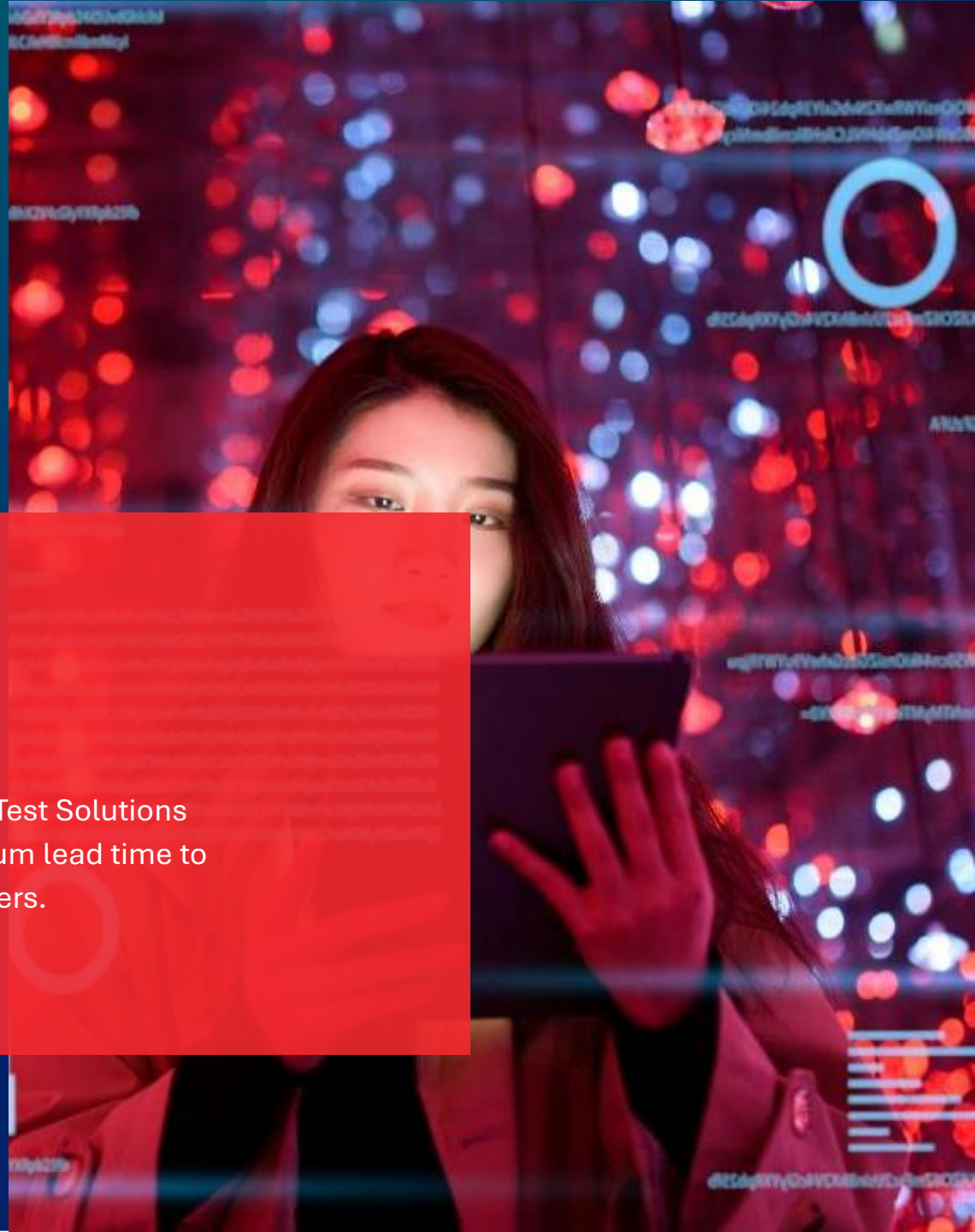


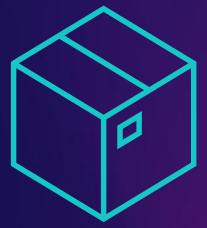
VISION

To serve every corner of the electronic/manufacturing industries by providing excellent customized test solutions.

MISSION

Providing best quality Fixtures and Test Solutions suitable for any budget with minimum lead time to increase the profitability of customers.





OUR FEATURES

CERTIFICATION

An ISO 9001:2015 certified company & rated by Dun & Bradstreet Information Services

APPROVAL

25 Years of continuous association with many PSU, MNC, EMS companies

IDEA

Fresh approach / concept for every complex needs to enhance productivity with customized solution

TEAM

Dedicated team of well experienced Engineers, Programmers and Technicians

SCHEDULE

Best quality, On dot Delivery & committed service support

LOCATION

Located at Bangalore city well connected by Air traffic for both domestic & international shipments with same day clearance

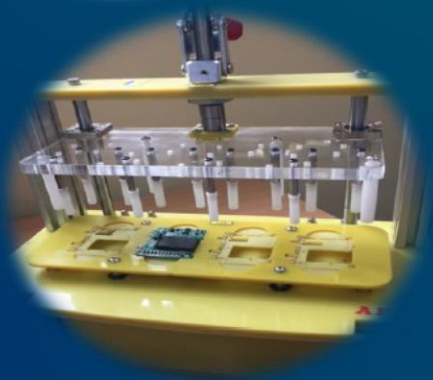
PRODUCTS & SERVICES

30+ YEARS

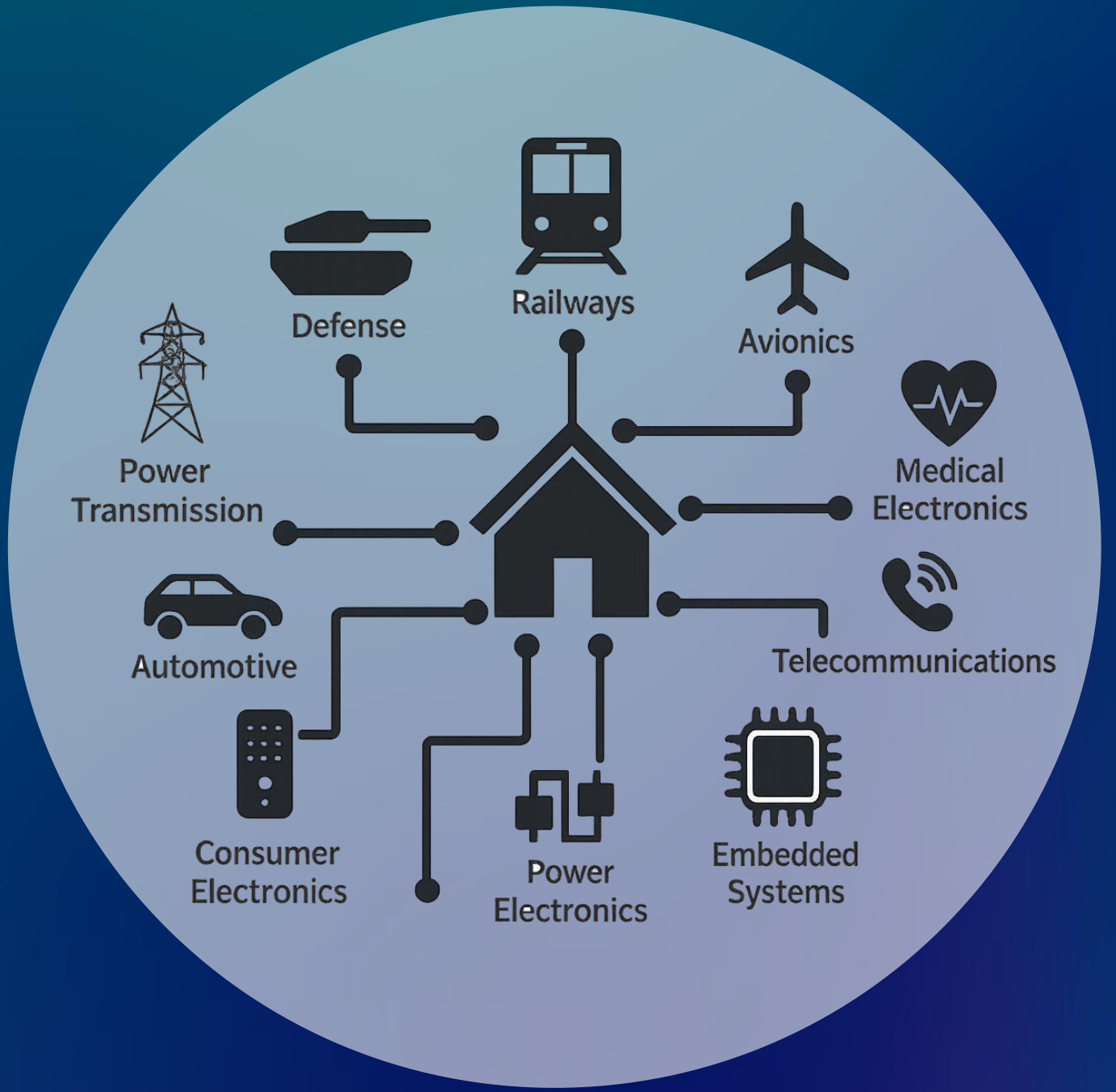
APEX

Quality PCB testing, made affordable

- In-Circuit Test (ICT) fixtures
- Turnkey solution / Industrial Automation
- Existing system Customization
- Functional Test fixtures



INDUSTRY SEGMENTS SERVED UNDER ONE ROOF

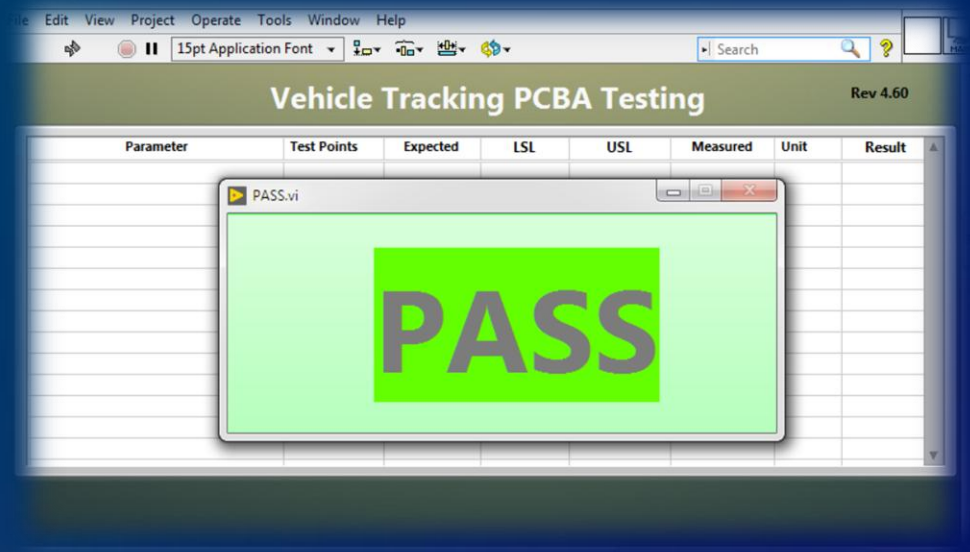


TURNKEY– FROM TEST HARDWARE DESIGN TO TEST SOFTWARE

ATE – AUTOMOTIVE PCBA

- Fully automated bed of nail test fixture
- Pneumatic CAM operation
- Resistance, Voltage and current measurement
- Automated programming of PIC microcontroller

Vehicle Tracking PCBA Testing								
Sl No :	WVE00003847							
Tested By :	613625							
Test date :	13-Sep-20		Time:	3:32 PM				
LV Rev	4.2							
Result :	PASS							
Sl Nos.	Item	Test Point	Expected	LSL	USL	Measured	Unit	Result
1	TP1 Impedance	TP 1 to RTN	9000000	1000	1000000000	366011.4	Ohms	PASS
2	TP2 Impedance	TP 2 to RTN	900	100	1000000000	233.7	Ohms	PASS
3	TP3 Impedance	TP 3 to RTN	250000	1000	1000000000	318503.2	Ohms	PASS
4	TP4 Impedance	TP 4 to RTN	500000	1000	1000000000	530375.5	Ohms	PASS
5	TP5 Impedance	TP 5 to RTN	550000	1000	1000000000	566785.7	Ohms	PASS
6	TP11 Impedance	TP 11 to RTN	700	100	1000000000	768.2	Ohms	PASS
7	24V_Input	UUT Input Voltage	24	23.5	24.5	24	V	PASS
8	TP1 Voltage	TP 1 to RTN	4.4	4.3	4.5	4.4	V	PASS
9	TP2 Voltage	TP 2 to RTN	1.8	1.7	1.9	1.8	V	PASS
10	TP4 Voltage	TP 4 to RTN	24	23	25	23.7	V	PASS
11	TP5 Voltage	TP 5 to RTN	5.1	5.1	5.3	5.2	V	PASS
12	TP11 Voltage	TP 11 to RTN	3.295	3.2	3.4	3.3	V	PASS
13	Current	Along Power Line	0.02	0.01	0.04	0.02	A	PASS
14	Flashing		PASS			PASS		PASS
**********								
Connecting to MPLAB PICkit 3...								
Currently loaded firmware on PICkit 3								
Firmware Suite Version.....01.55.01								
Firmware type.....PIC32MZ								
Target voltage detected								
Target device PIC32MZ0512EFK100 found.								
WVE00003847_091320153230_PA								

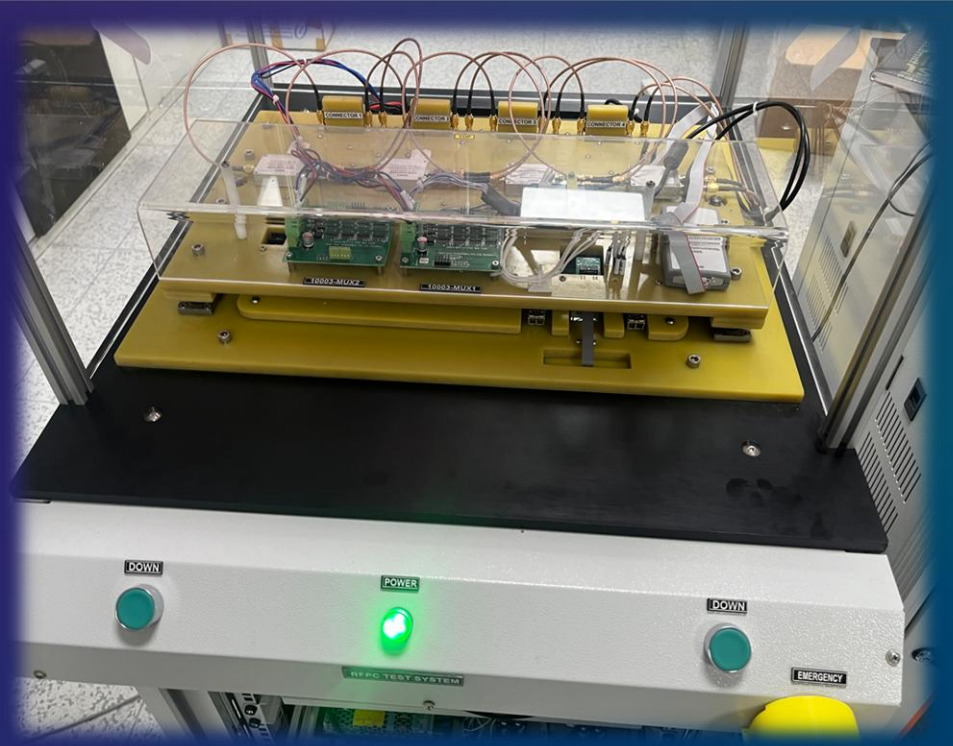


ATE - TURNKEY SOLUTIONS

ATE – SAFETY RELAY

ATE SETUP for

ATHER



REMOTE RADIO HEAD (RRH FIXTURE)

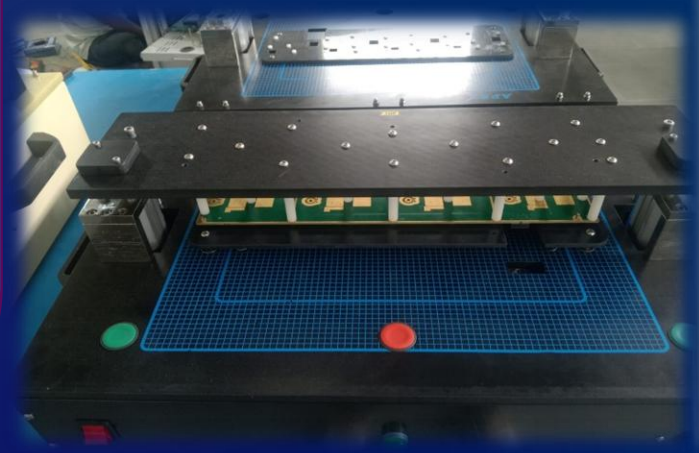
Project for

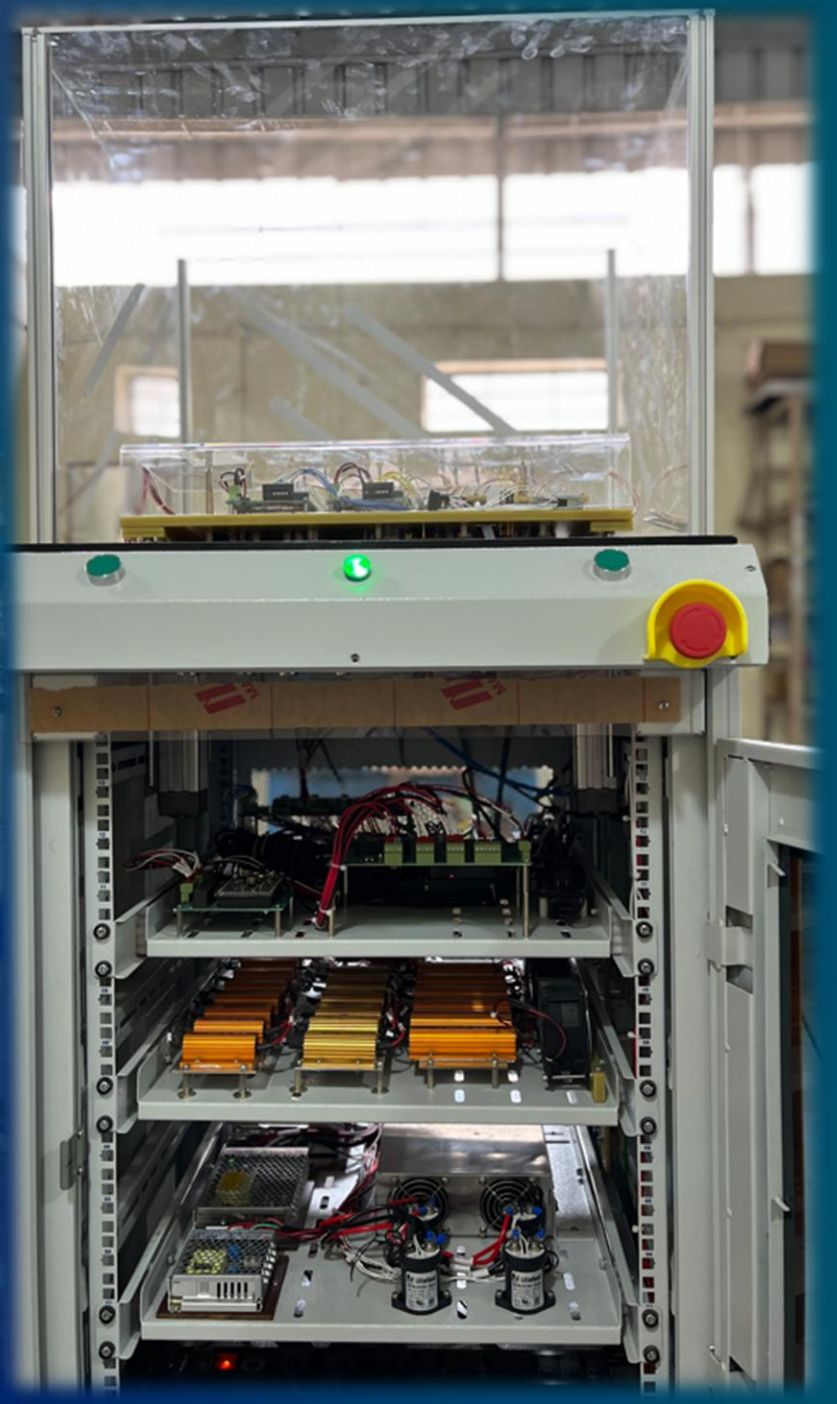
TEJAS NETWORKS

We successfully collaborated with Tejas Networks to develop a customized test fixture for their 4G rollout within a short span. Our fixtures have been deployed across various leading contract manufacturing sites such as Foxconn, Iljin, and Optimus Electronics, enabling smooth and large-scale production for nationwide implementation.

Project for

TEJAS NETWORKS





MODULE EOL

Application REV-7

Test Start Time

Test Duration

Module ID

Module Type A/B

Start

TEST 1 - THERMISTOR HEALTH CHECK

Thermistor No.	Temperature (C)	Result
Thermistor 1		
Thermistor 2		
Thermistor 3		
Thermistor 4 (Ambient)		
Max Temperature		
Min Temperature		
8S- temperature imbalance		
Ambient Temperature imbalance		

TEST 2 - VOLTAGE HEALTH CHECK

Cell No.	Voltage (V)	Result
Cell 1		
Cell 2		
Cell 3		
Cell 4		
Cell 5		
Cell 6		
Cell 7		
Cell 8		
Max Voltage		
Min Voltage		
8S - Voltage		
8S - Voltage Imbalance (mV)		

TEST 3 - INSULATION RESISTANCE TEST

Probing Points	Insulation Resistance (Mohm)	Result
Baseplate to Negative		
Baseplate to Positive		

TEST 4 - WELD RESISTANCE TEST

Probing Points	Resistance (uohms)	Result
Cell 1- End Busbar		
Cell 1 - Cell 2		
Cell 2 - Cell 3		
Cell 3 - Cell 4		
Cell 4 - Cell 5		
Cell 5 - Cell 6		
Cell 6 - Cell 7		
Cell 7 - Cell 8		
Cell 8 - End Busbar		

Limits Revision NO

TEST RESULT SUMMARY

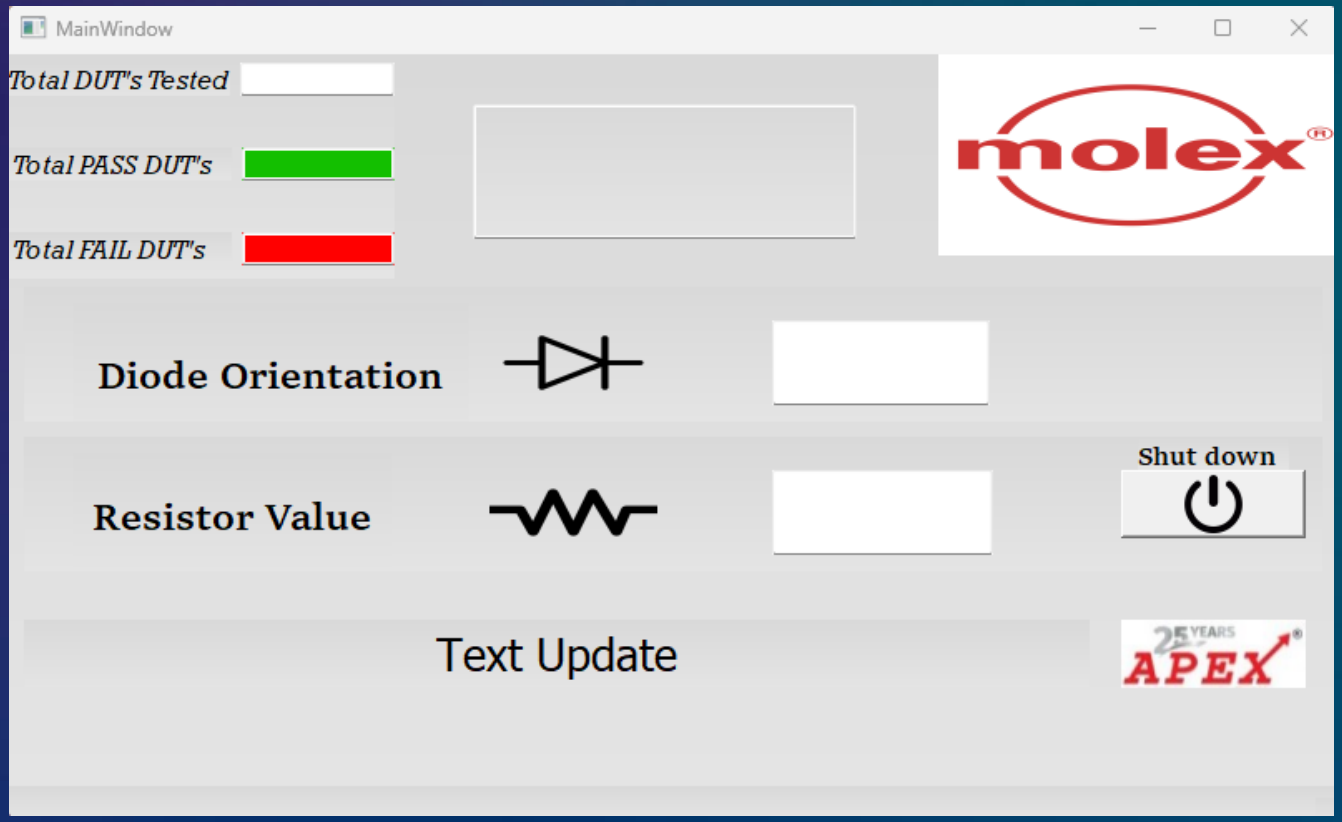
Test 1 - THERMISTOR HEALTH CHECK	
Test 2 - VOLTAGE HEALTH CHECK	
Test 3 - INSULATION RESISTANCE TEST	
Test 4 - WELD RESISTANCE TEST	

Admin

EV BATTERY PACK TEST FIXTURE

Project for

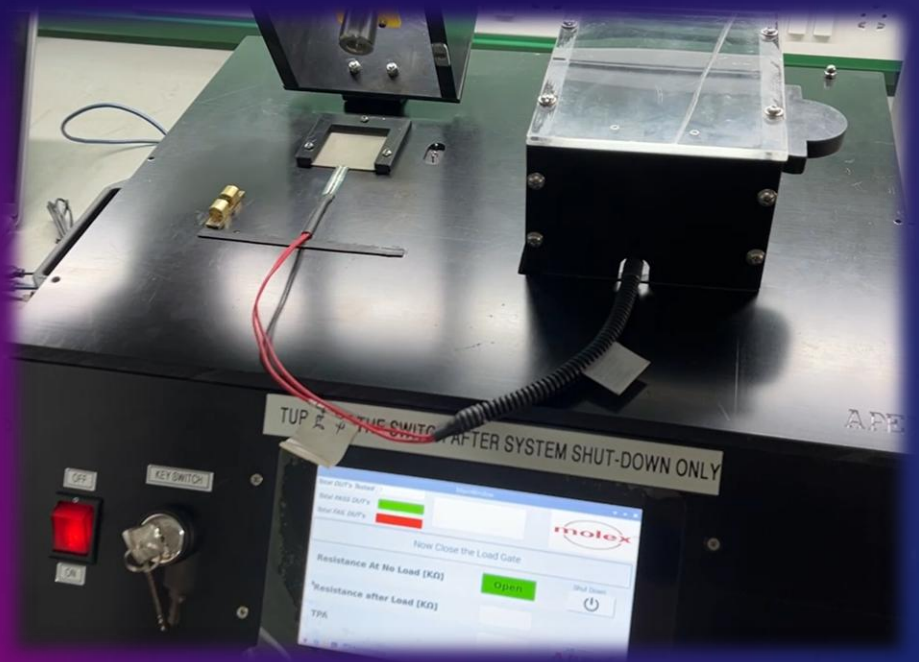
êéxponent

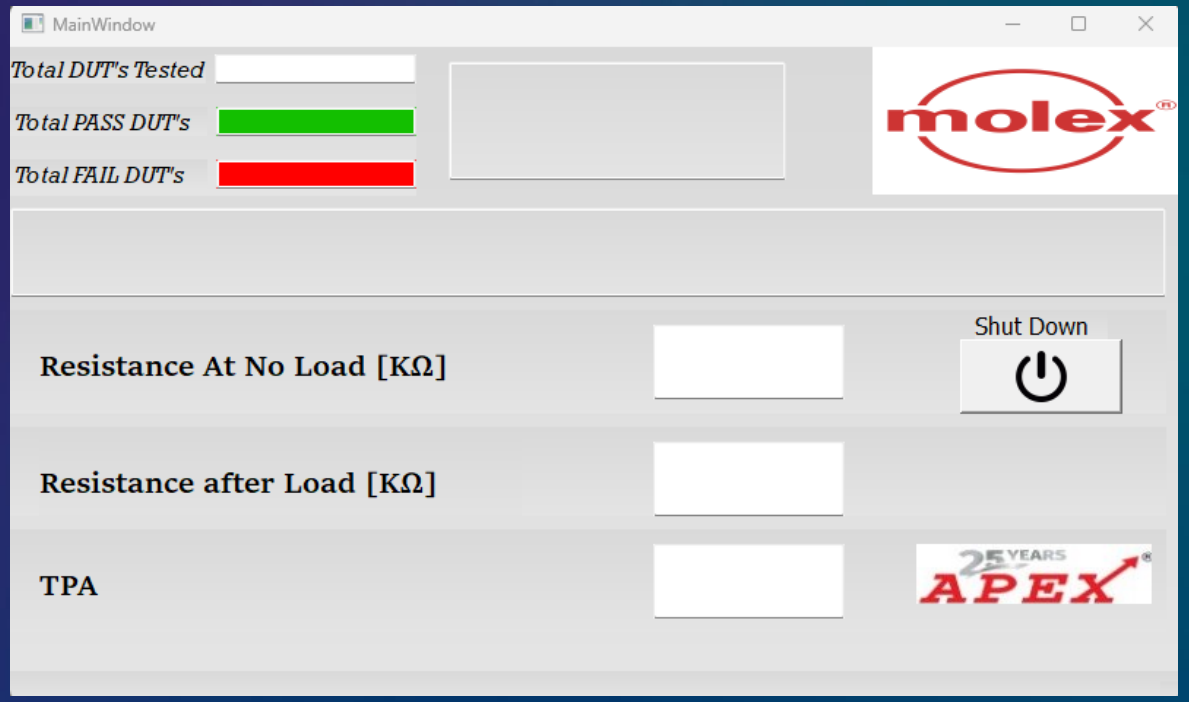


STAND ALONE TEST FIXTURE

Project for

molex

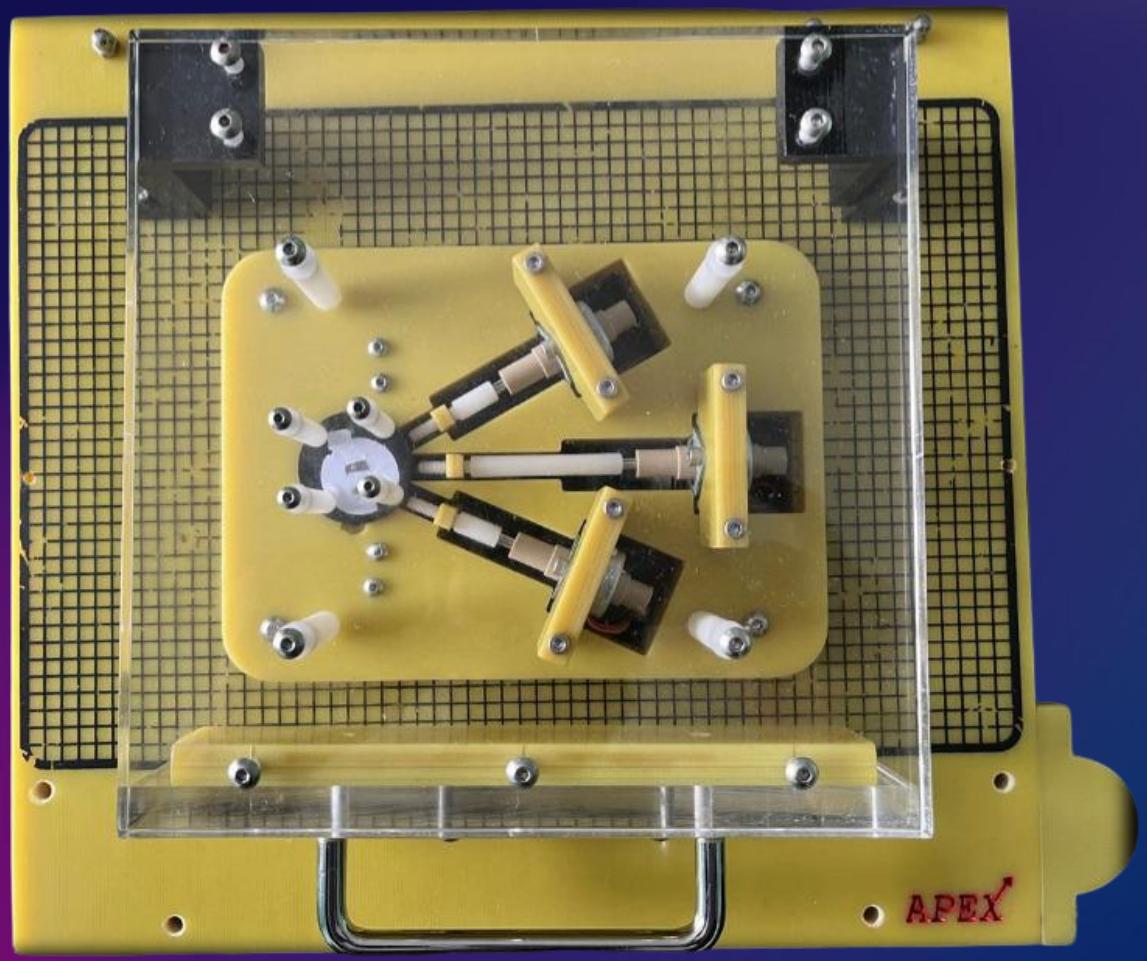




STAND ALONE TEST FIXTURE

Project for

molex



ANALOG SMART WATCH TESTER

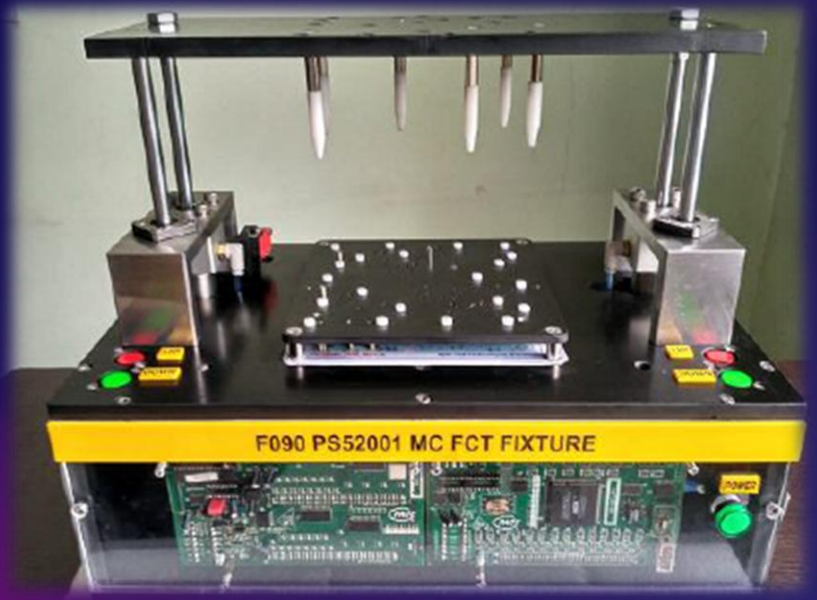
Project for

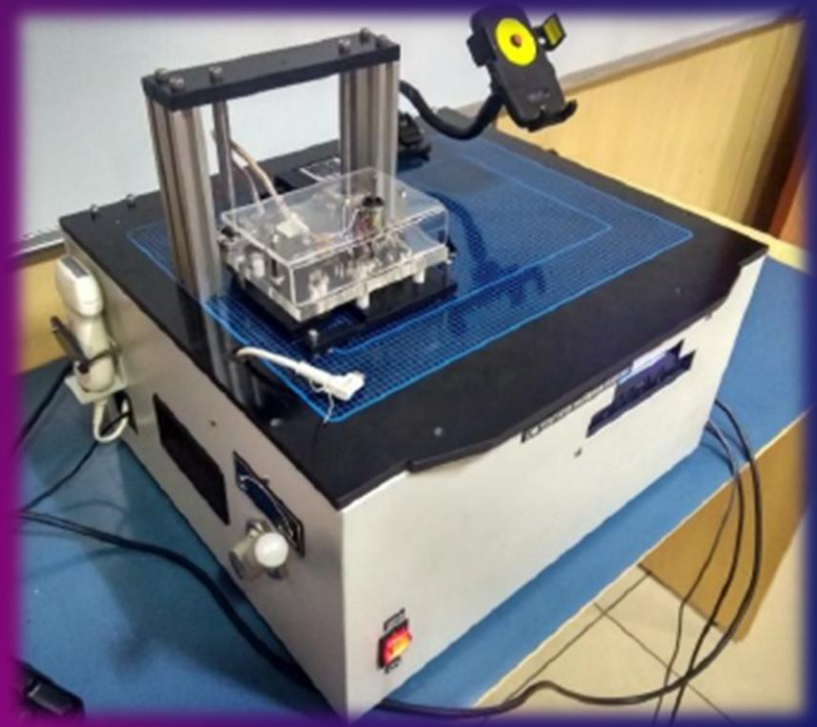
CONSUMEX

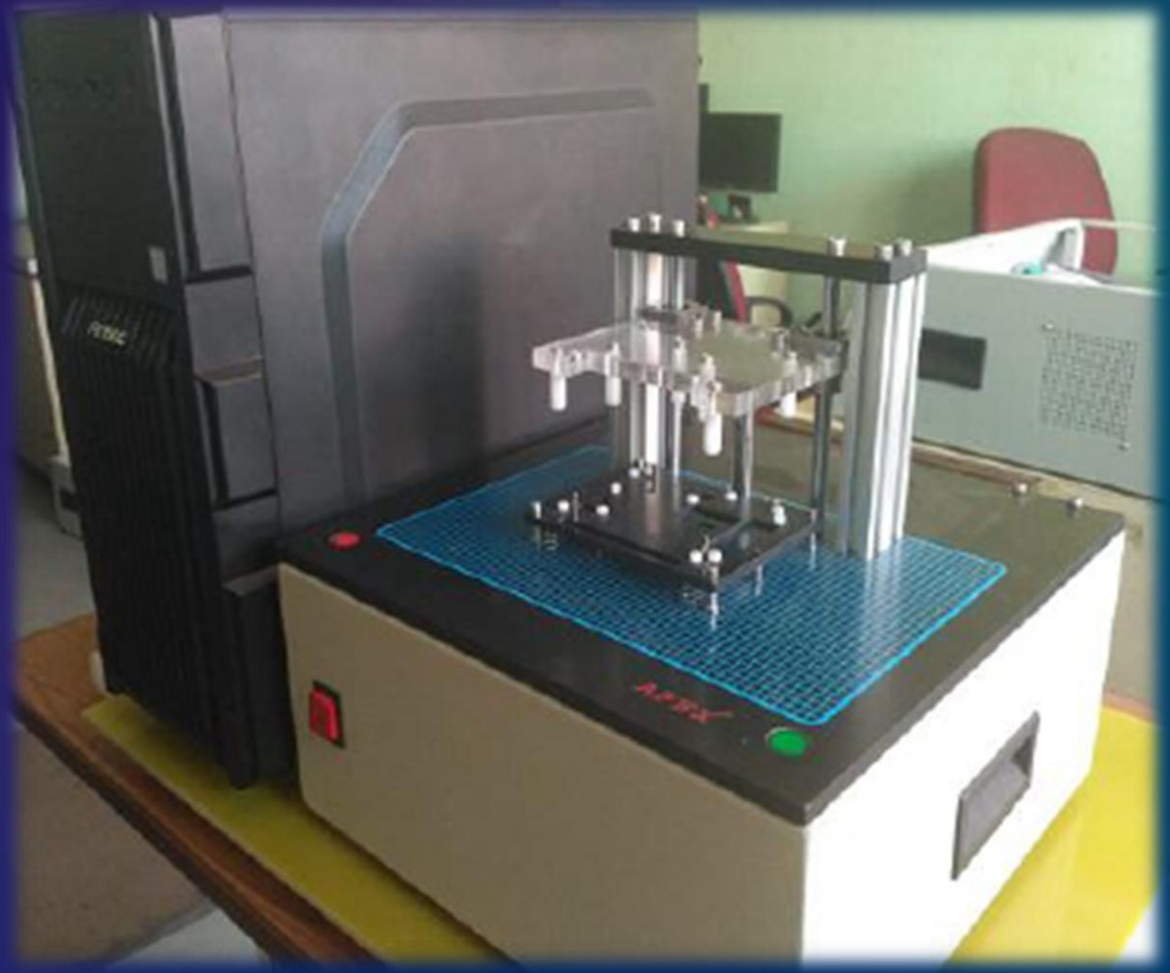
TURNKEY– RF TEST FIXTURE SOLUTION

Project for

भारत इलेक्ट्रॉनिक्स
BHARAT ELECTRONICS







PNEUMATIC OPERATED FIXTURES

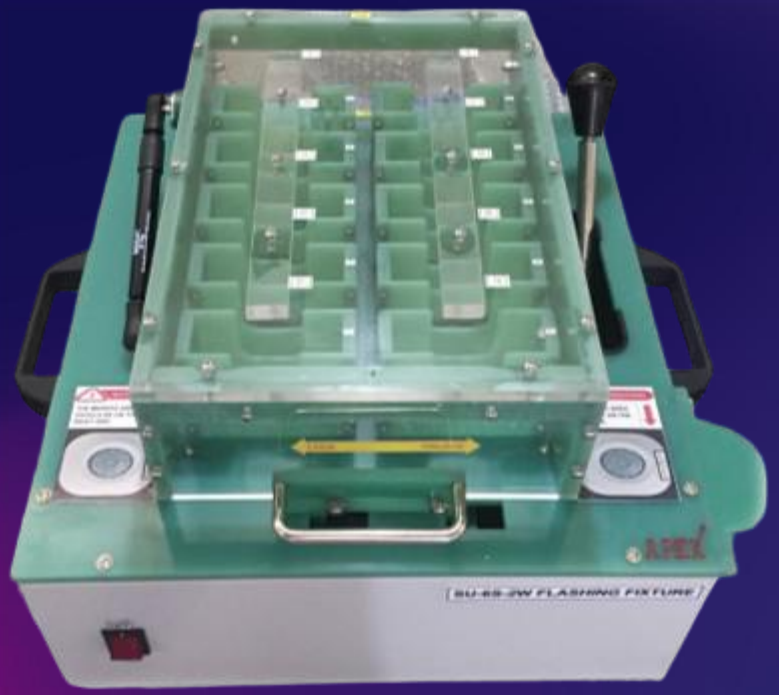
Fixture integrated with a camera and resistance measurement setup for validating both the color of the harness and measuring the NTC (Negative Temperature Coefficient) resistance, designed with both visual inspection and electrical testing

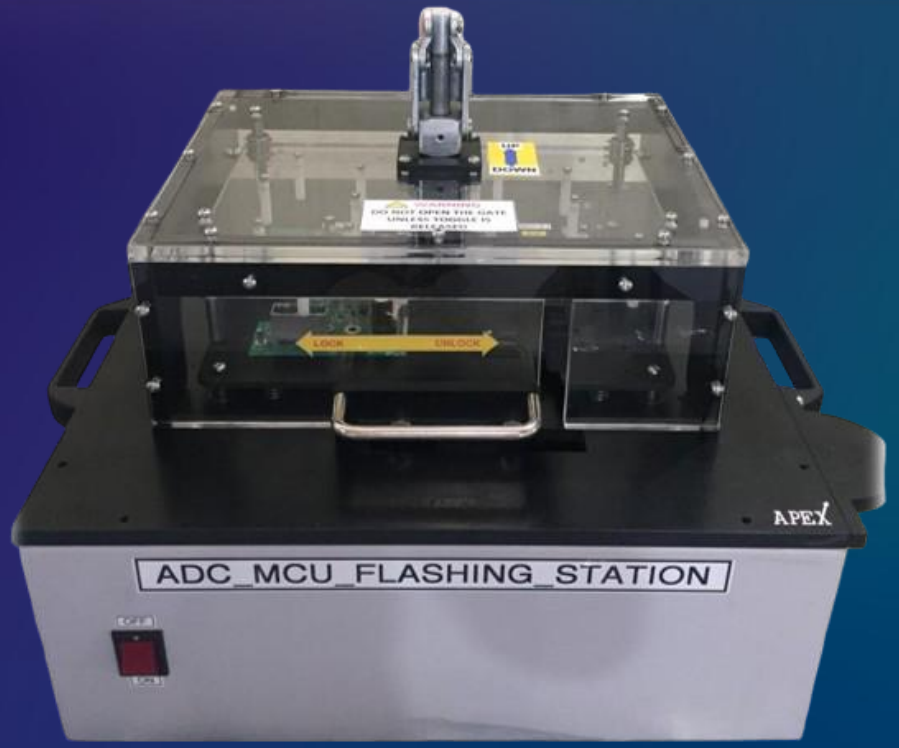
PNEUMATIC OPERATED FIXTURES

Project for

molex

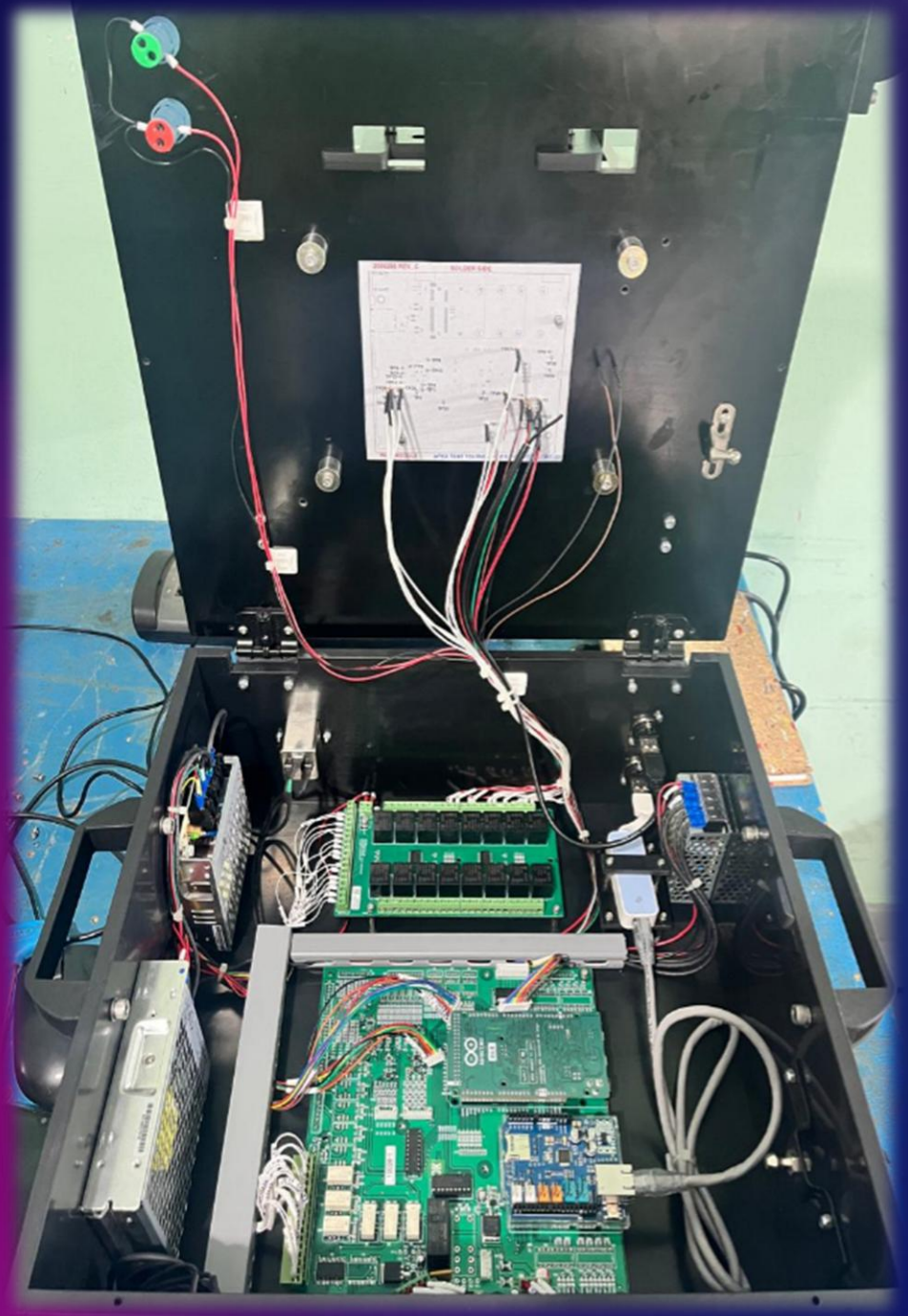
PNEUMATIC OPERATED FIXTURES

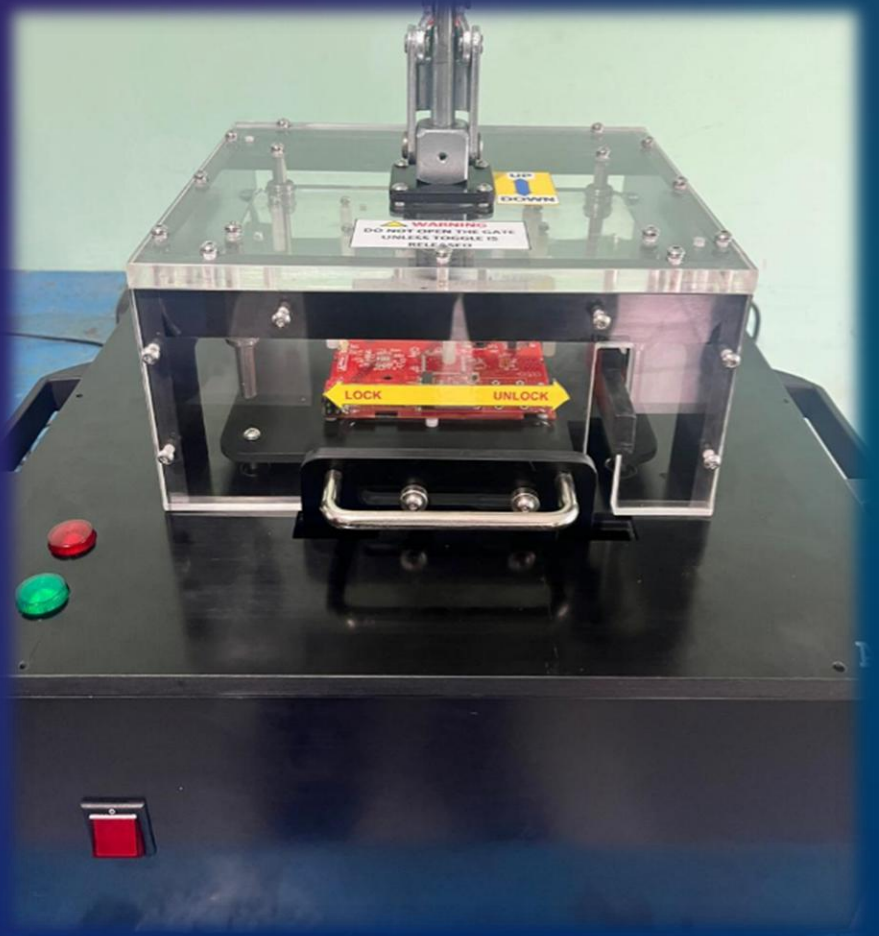




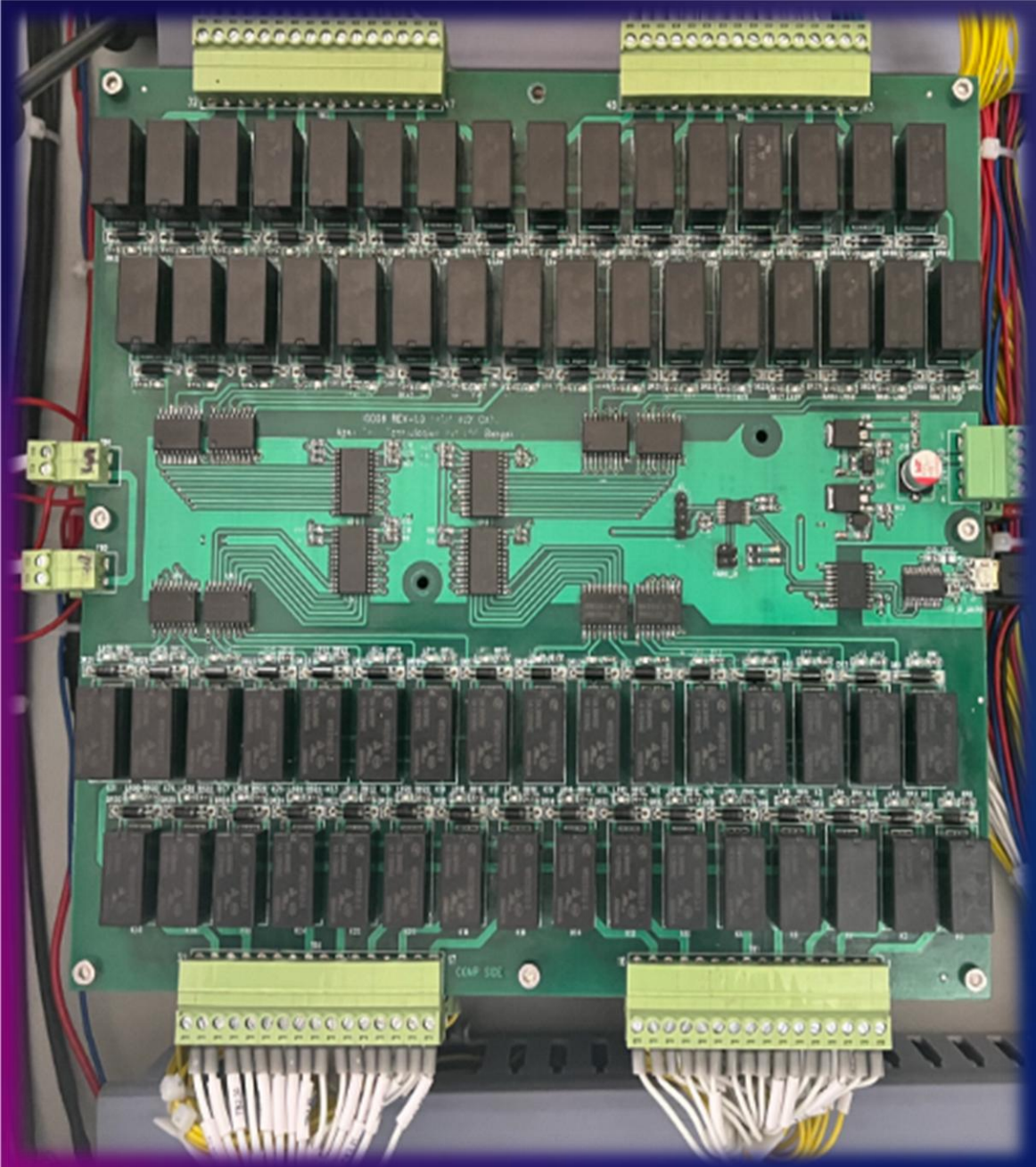
MANUALLY OPERATED FIXTURES

MANUALLY OPERATED FIXTURES



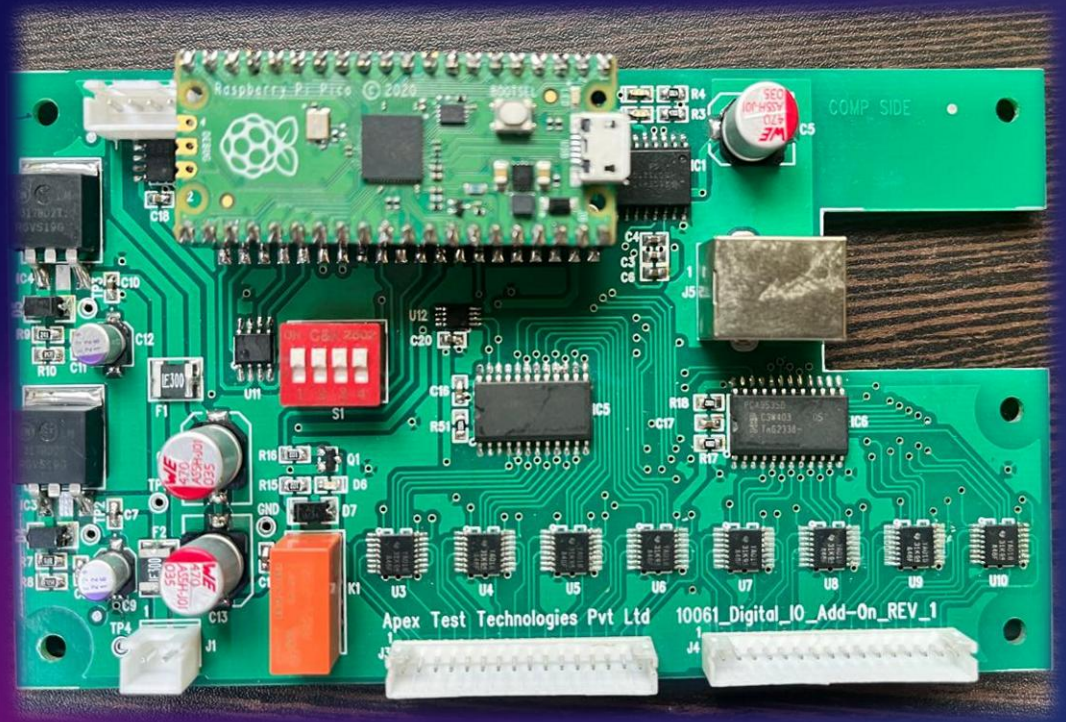


FIXTURE WITH IN-HOUSE INSTRUMENTATION

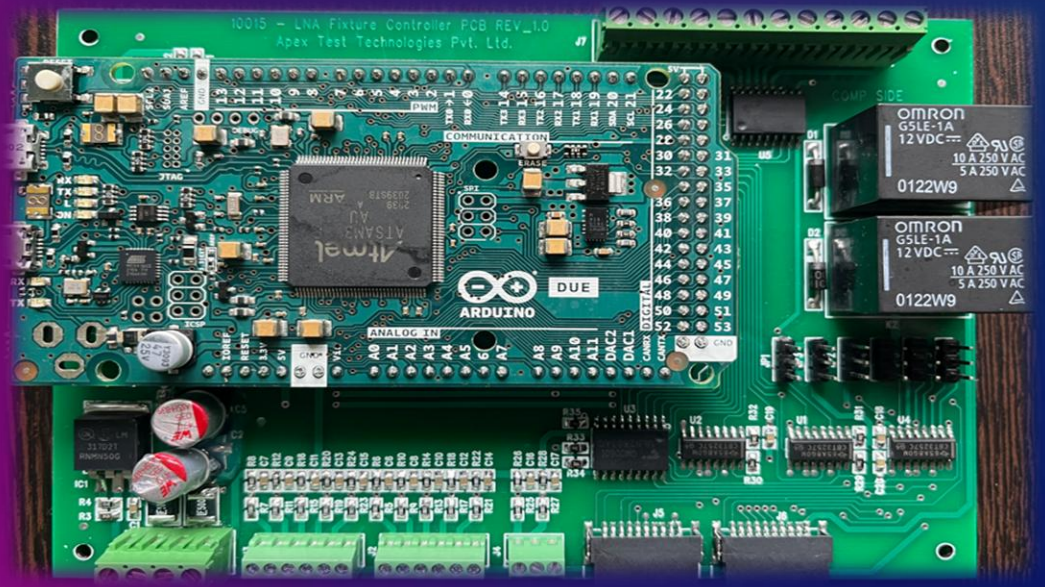


64 CH Multiplexer Card with USB interface

IN-HOUSE PCBA DESIGN

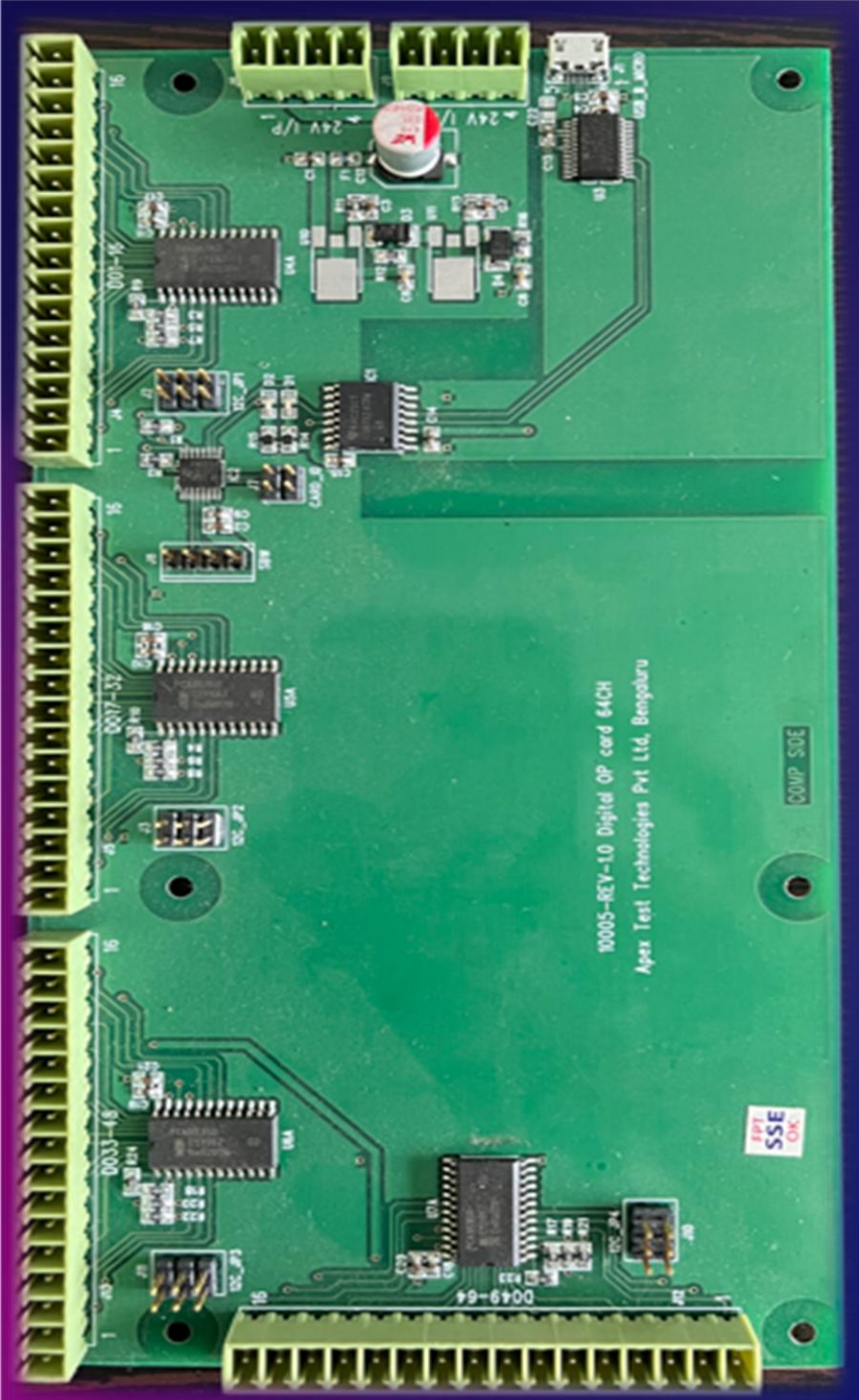


32 Channel Configurable Digital Input/Output Card With **Self Test**

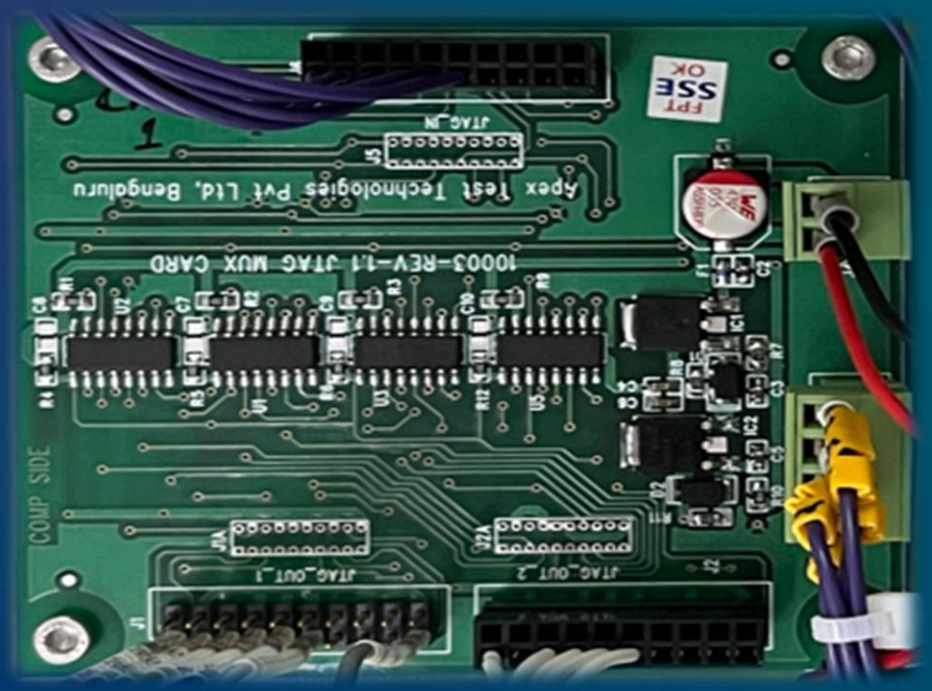


Fixture Controller Using Arduino Due

IN-HOUSE PCBA DESIGN

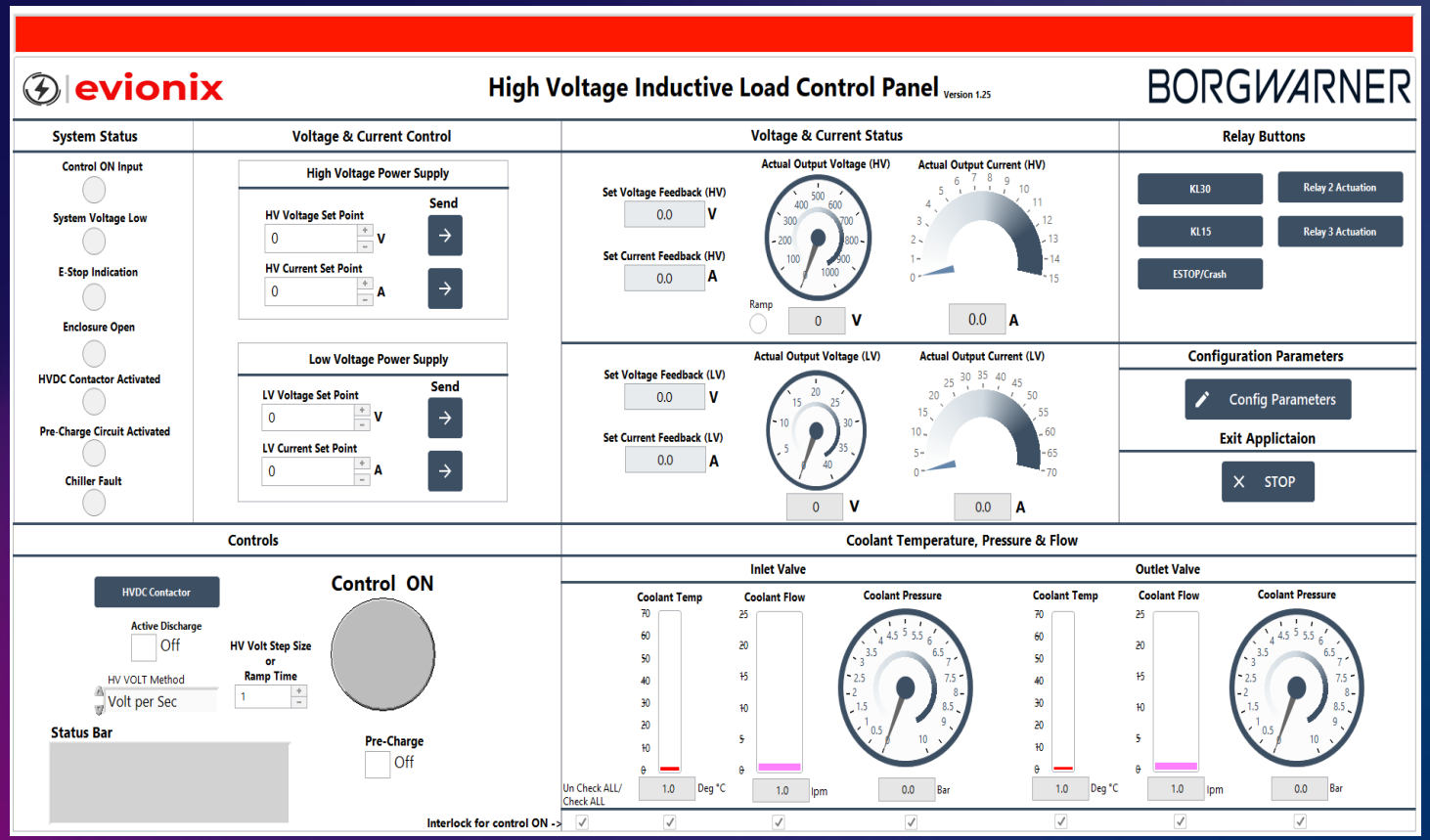


64 CH & 32 CH
Digital IP/OP Card



JTAG Mux Card

IN-HOUSE PCBA DESIGN



Project	Switch Filter Bank
Module	`SFB
Part No	
Serial No	
Account Name	Admin
User Name	Admin
App_Version	REV_1

Start | Abort

Test Time

Total SFB Tested: 0

Passed SFB's: 0

Failed SFB's: 0

Report Path: D:\Himil_SFB_Reports

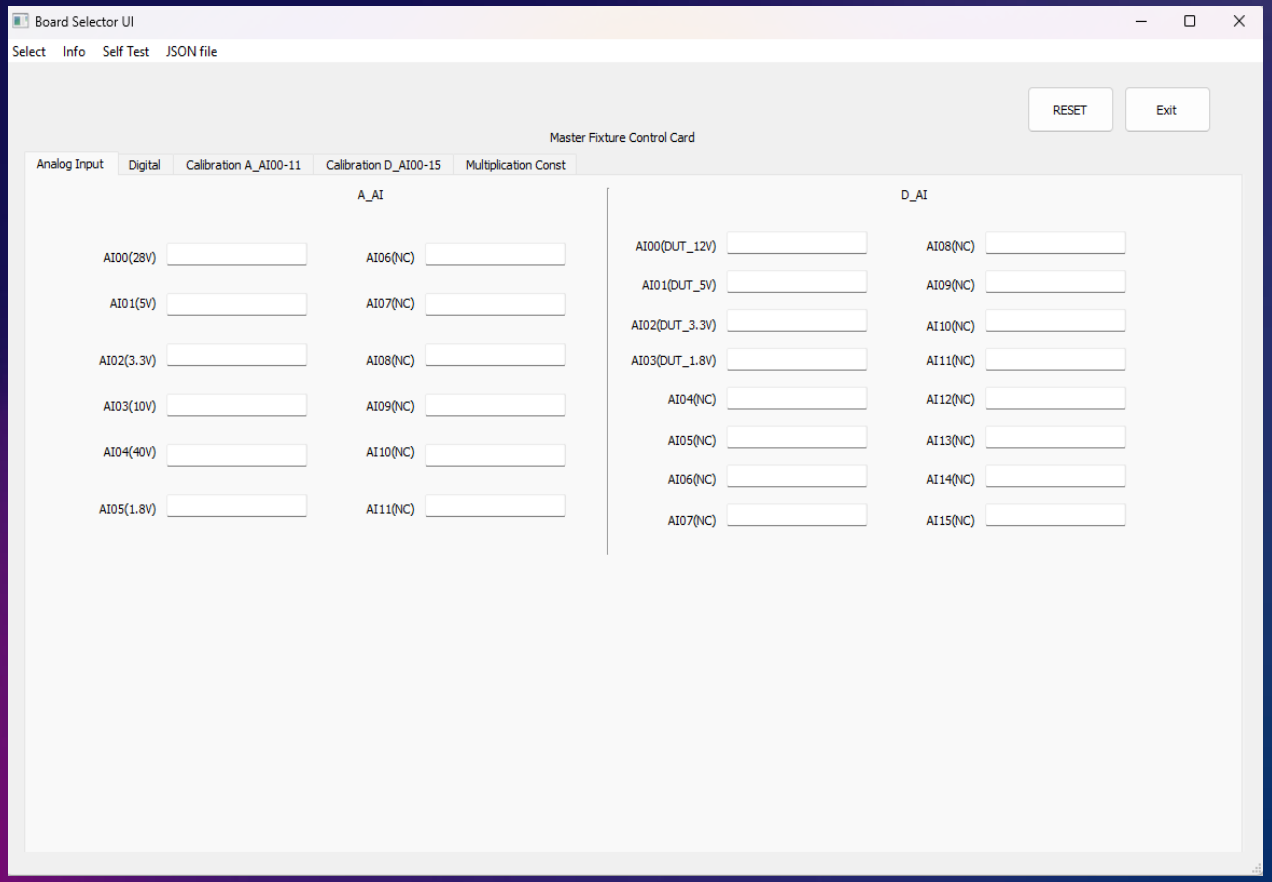
Open Report | Change of Limits | Inst Settings | ADD User

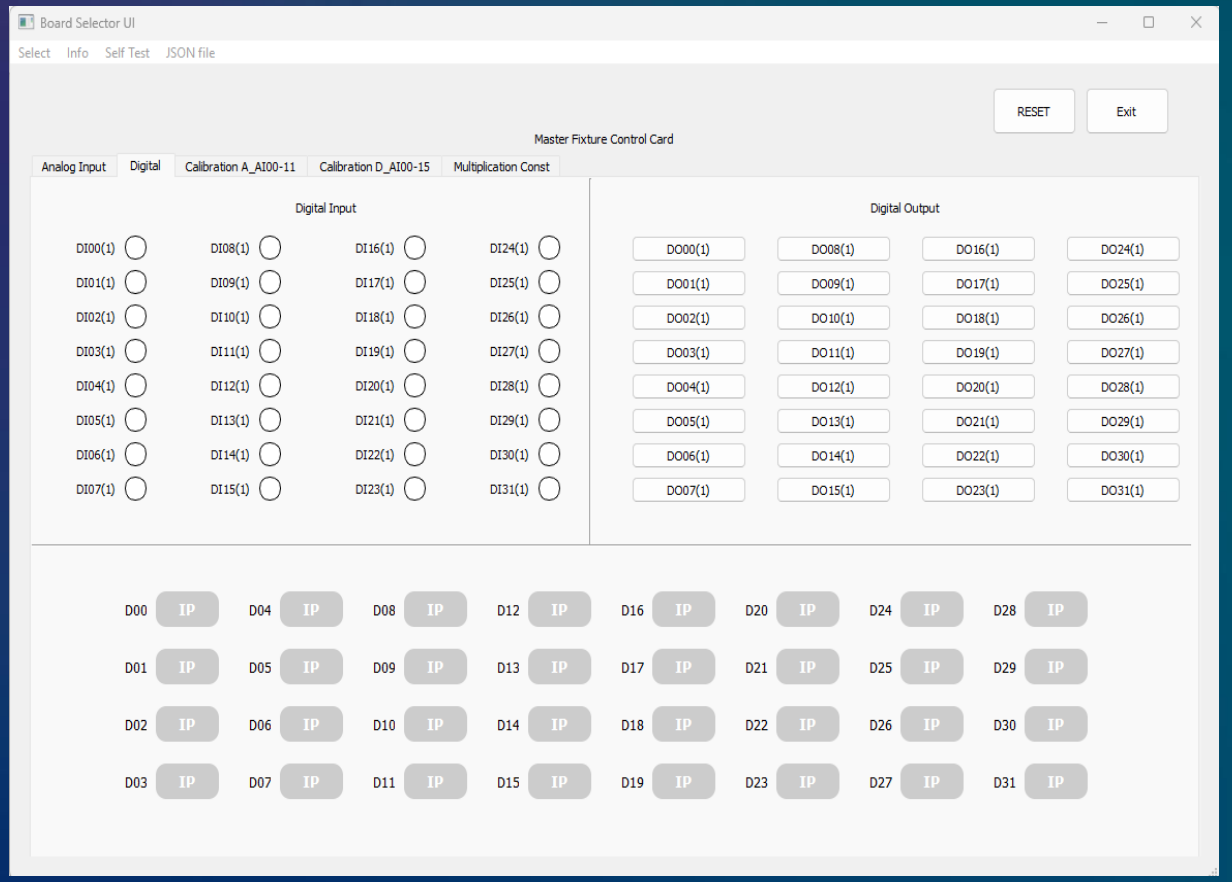
>>>>> Executing "Idle State" <<<<<

Sl. no.	Test description	Expected	Lower Limit	Upper Limit	Value	Result
1	Power SFB		0.00	0.00		
2	Low Power Insertion Loss		2.00	0.00		
3	Low Power Input VSWR		1.40	0.00		
4	Low Power Output VSWR		1.40	0.00		
5	Low Power 3dB filter bandwidth		7.00	10.00		
6	Low Power Harmonics		70.00	0.00		
7	Low Power Spurious		70.00	0.00		
8	High Power 100 Watts SSPA Mesurment		49.00	50.00		
9	High Power Insertion Loss		49.00	50.00		
10	High Power Harmonics		70.00	0.00		
11	High Power Spurious		70.00	0.00		

Check All | UnCheck All

Software Development(LabVIEW)





Software Development(Python)

TECHNICAL CAPABILITY

FIXTURE MECHANICAL DESIGN

AUTOCAD

SOLIDWORKS

CNC MACHINING

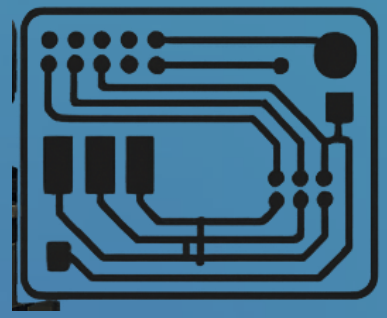
PROGRAMMING PLATFORM

NI TestStand

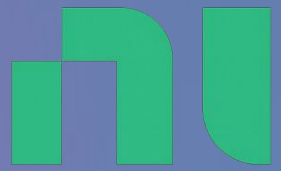
LabVIEW

python

CUSTOM PCB DESIGN



INSTRUMENTATION HARDWARE INTERFACING FROM



Instruments : DMM, Oscilloscopes, Hi-Pot testers, Electronic loads, Programmable power supply, Power analyzer etc.

Interface : PXI, USB, LAN, LXI, PCI, GPIB, RS232

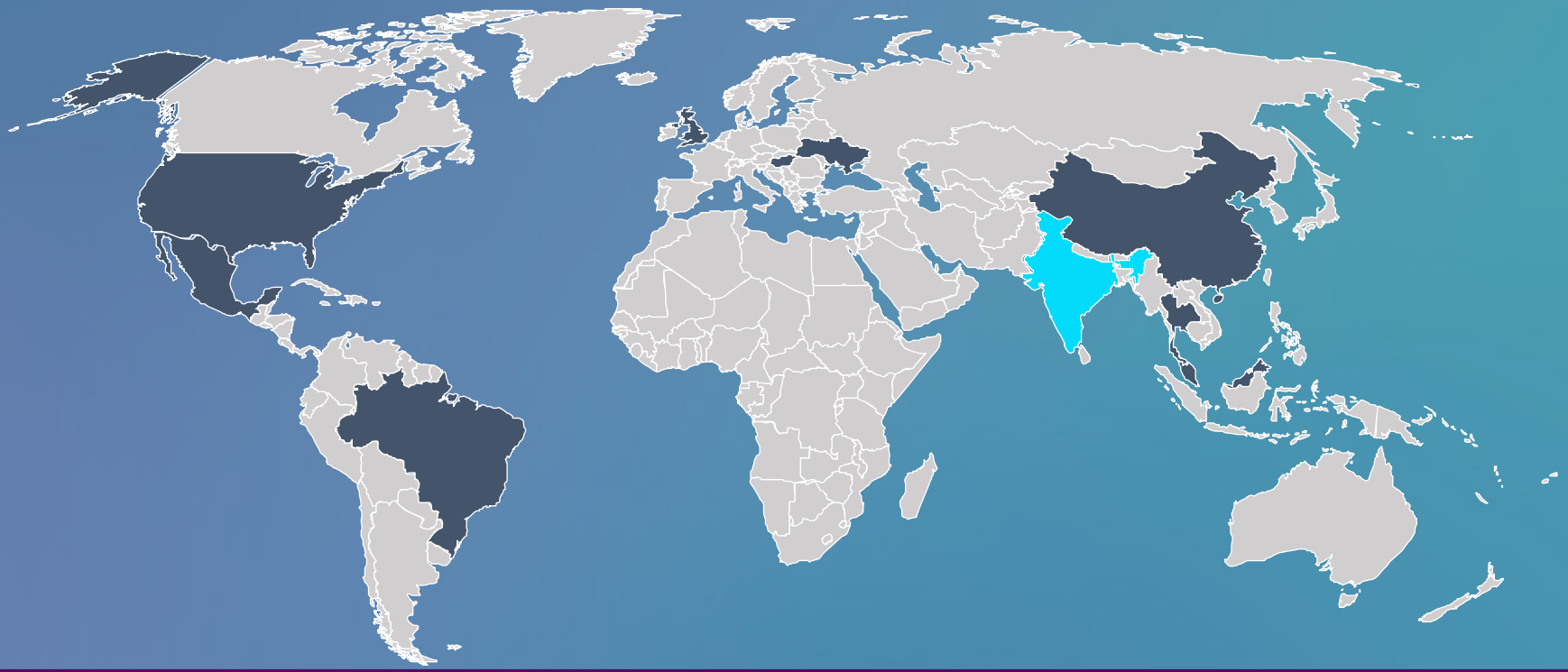
OKANO

TERADYNE

CNC MACHINE

GENRAD

INFRASTRUCTURE



- USA
- MEXICO
- BRAZIL

- UK
- HUNGARY
- UKRAINE

- CHINA
- THAILAND
- MALAYSIA
- SINGAPORE

EXPORT REGIONS


ALTRAN
Part of Capgemini


L&T Technology Services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BHARAT ELECTRONICS


Enlighted


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PHILIPS


BOSCH


molex


TATA
CONSULTANCY
SERVICES


Honeywell


APTIV


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ATHER


Ultraviolette
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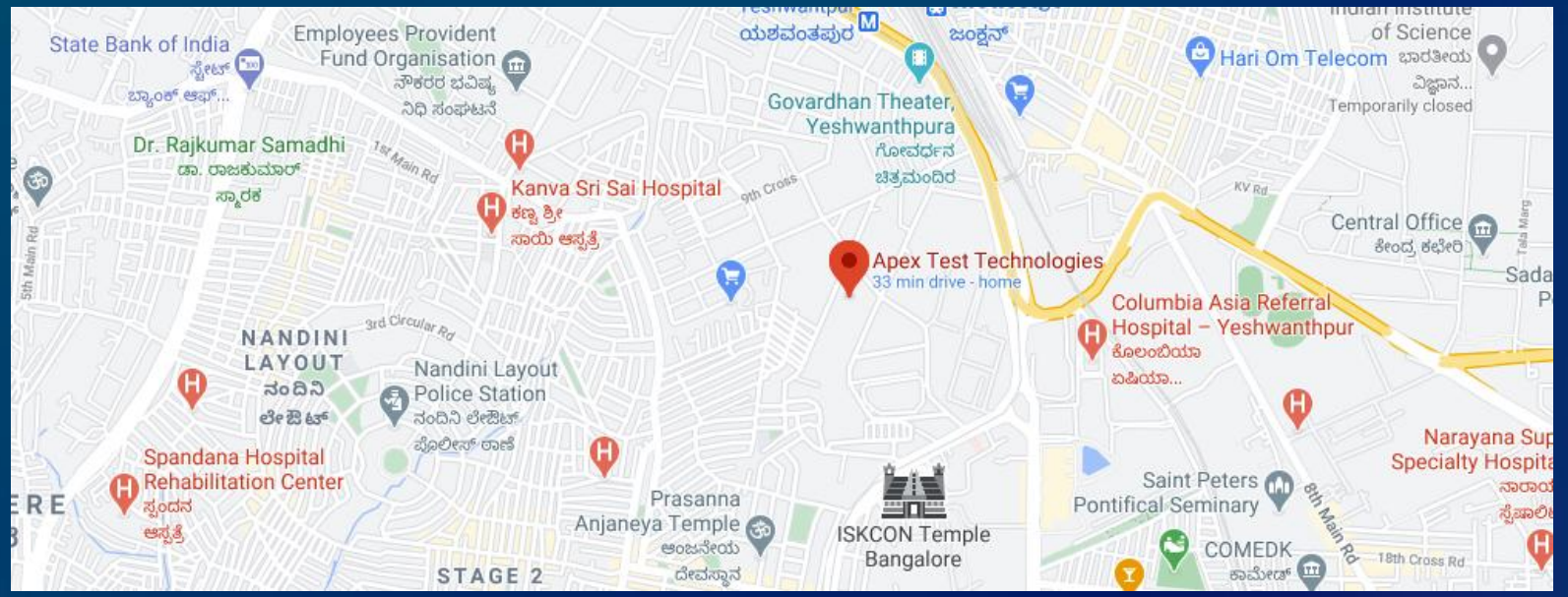

THANK YOU