



اوتو سيني تيكنولوݢي مارا  
UNIVERSITI  
TEKNOLOGI  
MARA

## **INDUSTRIAL TRAINING FINAL REPORT**

### **INARI TECHNOLOGY SEMICONDUCTORS LAB (P13)**

**PLOT 98, HALA KAMPUNG JAWA 1, ZON PERINDUSTRIAN**

**BEBAS, 11900 BAYAN LEPAS**

**PULAU PINANG**

#### **Prepared by:**

**Name : MUHAMAD ISHRAF BIN AZAHARI**

**Matric No. : 202187**

**Programme : CEE112**

**Training Period : 11 SEPTEMBER 2024 –**

**31 JANUARY 2025**

**Visiting Lecturer : MADAM JULIANA MD SHARIFF**

## **TABEL OF CONTENTS**

### **Contents**

TABEL OF CONTENTS .....	3
LIST OF FIGURE .....	4
LIST OF TABLES.....	5
LIST OF ABBREVIATIONS.....	6
CHAPTER 1: INTRODUCTION.....	7
1.1 COMPANY BACKGROUND .....	7
1.1.1 History of Inari Amertron Berhad .....	8
1.1.2 Objective and scope of Inari Amertron Berhad .....	9
CHAPTER 2: JOB RESPONSIBILITIES.....	10
2.1 TASK EXECUTION .....	10
2.1.1 Wiring Tester RF Cables .....	10
2.1.2 Rules and Safety .....	11
2.1.3 Modern Tool Usage .....	13
2.1.3 Hontech and Existech Machines Service.....	17
2.1.4 Troubleshoot Tester for Hontech Machines .....	23
2.1.5 Tester Components .....	27
2.1 PROBLEM SOLVING SKILLS.....	33
2.2 TECHNICAL KNOWLEDGE .....	34
CHAPTER 3: RECOMMENDATION.....	36
REFERENCES.....	38
APPENDICES.....	39

# **CHAPTER 1: INTRODUCTION**

## **1.1 COMPANY BACKGROUND**

Inari Amertron Berhad is an electronics manufacturing services (EMS) provider, providing manufacturing services and support to the Radio Frequency, Optoelectronics, and Fiber-Optics, as well as Testing & Measurement Equipment sectors.

Inari Amertron was listed on the ACE Market of Bursa Malaysia Securities Berhad (Bursa Malaysia) on 19 July 2011 and transferred to the Main Market of Bursa Malaysia effective 3 June 2014. Its securities are Shariah-compliant and are a constituent of the FTSE4Good Bursa Malaysia Index, reflecting its commitment to strong Environmental, Social, and Governance (ESG) practices.

As of 2025, Inari Amertron operates a total of 12 factories, situated in Malaysia (Penang, Johor), the People's Republic of China (Kunshan), and the Philippines (Clark Field, Parañaque), employing a workforce of over 6,000 employees. The company continues to serve its key sectors by providing outsourced semiconductor assembly and test (OSAT) services.

### **1.1.1 History of Inari Amertron Berhad**

Inari Amertron Berhad was formed following the acquisition of Amertron Inc. (Global) Limited by Inari Berhad. Inari Berhad was established in 2006 as an EMS provider of semiconductor packaging services to the Radio Frequency (RF) mobile industry, which includes back-end wafer processing and RF testing. Inari's RF products are used mainly in the wireless telecommunications sector, including smartphones, 3G devices, cellular phones, and wireless computing peripherals.

Amertron Inc. (Global) Limited, established in 1988, specializes in optoelectronics manufacturing (LEDs, LED displays, optical sensors, and infrared sensors used in data centers, automotive and defense sectors, consumer computing devices, and industrial automation) and fiber-optics research, design, and manufacturing (fiber-optic transmitters and receivers used in the telecommunications industry such as data centers and server switches).

On 25 June 2013, Inari Berhad completed the acquisition of Amertron for USD 32 million, and the name of the enlarged Group was subsequently changed to Inari Amertron Berhad effective 5 July 2013.

### 1.1.2 Objective and scope of Inari Amertron Berhad

- To provide end-to-end semiconductor services, including wafer processing, chip fabrication, advanced system-in-package assembly, and testing. These services cater to various sectors such as radio frequency, fiber optics transceivers, optoelectronics, sensors, and custom integrated circuit technologies.
- To implement sustainable business practices, aiming for responsible and long-term growth. Inari Amertron adheres to global sustainability guidelines and frameworks, including the Global Reporting Initiative (GRI) Standards, FTSE4Good Bursa Malaysia Index's Environmental, Social, and Governance indicators, and the United Nations Sustainable Development Goals (UNSDGs).
- To enhance workplace well-being by respecting human rights, retaining talent, and striving for zero incidents in the workplace. The company is also dedicated to improving the well-being and living standards of surrounding communities through continuous engagement and support.



*Figure 1. 1: Perspective view of INARI TECHNOLOGY SEMICONDUCTORS LAB (P13)*