THMY Technologies
Quality & Efficiency

# About Us

THMY Technologies Sdn Bhd (THMY Tech), formerly known as Testing House Malaysia Sdn Bhd is principally involved in the provision of automated test solutions for E&E products, with end-use in various industries. We offer design, development (software), fabrication (hardware), assembly and installation of test fixtures and/or tested platforms.

Established in 2008, THMY operates as a manufacturing facility spanning approximately 14,760 sq ft factory in Perai, Pulau Pinang.

- Main business approach on ATE turnkey solution for Keysight 3070, Keysight i1000,Teradyne Test Station, TRI518/5001
- Automation Solution, Stand Alone JTAG Boundary Scan, Flying Probe, Functional test
- Customize software and programming solution.

THMY's strategic location enables us to deliver valuable services and support to customers across countries, including Singapore, Thailand, Vietnam, the Philippines, and India.

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| Category | ICT solutions |
|---|---|
| **Test purpose** | Tests for assembly defects, including component placement errors, component faults, soldering defects, short-circuits and electrical interruptions. |
| **Test coverage** | Component-level testing: Test individual components using probes, receptacles and connectors. |
| **Test sequence** | Performed after component assembly and before mechanical assembly of PCBAs.<br>Carried out before FCT. |
| **Tester platforms** | Keysight, Teradyne and TRI. |
| **Advantages** | Early fault detection to verify the integrity of individual components and connections on PCBAs. |

| Category | FCT solutions |
|---|---|
| **Test purpose** | Tests whether PCBAs function according to their intended logic and functionality (e.g., power supplies, displays, inputs/outputs and communications). |
| **Test coverage** | Assembly-level testing: Tests the entire assembly or specific sections of the PCBA. |
| **Test sequence** | Performed at the end of the production process, after component and mechanical PCBA assembly.<br>Carried out after ICT. |
| **Tester platforms** | Customised needed. |
| **Advantages** | Thorough check of the PCBA's performance and functionality and verifies the complete operational capability of the PCBA. |

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# JOB OPENING

| Position | Department |
|---|---|
| Mechanical Design Engineer | HDE |
| Mechanical Engineer | HDE |
| R&D Embedded Software Engineer | R&D |
| IT Engineer | TDE |
| Technician | Production |

# MECHANICAL DESIGN ENGINEER

Mechanical Design Engineer for In-Circuit Test (ICT) and Functional Circuit Test (FCT): designs and validates test fixtures, mechanical interfaces, and production tooling to ensure reliable ICT and FCT execution and smooth manufacturing ramp-up.

## Job Accountabilities

- Design In-Circuit Test (ICT) and Functional (FCT) fixtures complying with customer requirements.
- Meeting expected/ committed fixture design timeline as well as supporting Operation to meet desired manufacturing lead time.
- Work out with Sale team for front end data accuracy during project turn on phase. Validating fixture requirement and Customer default specification.
- Upload and release flawless customization fixture drawing to fabrication.
- Manage the Engineering Change Order (ECO).
- Support kit engineering issue resolution and R&D project as need.
- Responsible for customer on-site feedback issue resolution as assigned.

## Knowledge / Skills

- Design experience with Solid Work or AutoCAD.
- Background in fixture design.
- Involve in RFQ / quotation activities by providing engineering pre-design and cost.

# MECHANICAL ENGINEER - ICT

The **ICT (In-Circuit Testing) Mechanical Engineer** is responsible for designing and developing mechanical systems and fixtures used in In-Circuit Testing (ICT) for electronic components and printed circuit boards (PCBs). This role involves the creation of precise mechanical fixtures that interface with automated test equipment (ATE) to verify the functionality, integrity, and assembly of electronic circuits. The ICT Mechanical Engineer collaborates with cross-functional teams, including electrical, software, and test engineers, to ensure smooth integration of mechanical solutions for high-precision testing and continuous improvement of ICT systems.

**Job Accountabilities**

- Design and develop mechanical fixtures, jigs, and tooling for in-circuit testing (ICT) systems using CAD software (e.g., SolidWorks, AutoCAD, CATIA).
- Create 3D models, technical drawings, and detailed specifications for test fixtures to interface with test points on PCBs and electronic assemblies. Develop fixtures that ensure precise contact with test probes and that support automated or semi-automated test processes.
- Lead product development efforts from concept to final production, ensuring adherence to design specifications.
- Troubleshoot mechanical and alignment issues during test operations and make necessary adjustments.
- Continuously improve the design of test fixtures to reduce cycle times, improve accuracy, and increase testing throughput.

**Job Accountabilities**

- Implement design improvements based on feedback from production and testing teams to enhance fixture reliability and ease of use.
- Conduct failure analysis and root cause investigations to address thermal issues in ICT/FCT systems.
- Maintain accurate documentation, including engineering reports and design reviews.
- Lead and manage mechanical engineering projects, ensuring timelines, budgets, and performance goals are met.
- Work closely with other departments (manufacturing & quality) to ensure successful product launch. Interface with suppliers and external partners to review and approve materials, components, and manufacturing processes.

# MECHANICAL ENGINEER - FCT

The **FCT Mechanical Engineer** is responsible for designing, developing, and maintaining mechanical systems and fixtures used in **Functional Circuit Testing (FCT)** for electronic components and assemblies. This role requires expertise in mechanical design, testing procedures, and fixture development to ensure that testing systems operate efficiently and accurately. The FCT Mechanical Engineer collaborates closely with cross-functional teams, including electrical and software engineers, to create reliable test environments and support continuous improvement initiatives within the testing process.

**Job Accountabilities**

- Design and develop mechanical fixtures, jigs, and systems required for FCT processes.
- Use CAD software (e.g., SolidWorks, AutoCAD, CATIA) to create 3D models and detailed technical drawings for fixtures and tools.
- Work with electrical and software engineers to integrate mechanical designs into functional test systems.
- Ensure mechanical components are properly aligned and functional for automated or manual testing processes.
- Develop testing setups that ensure precision, repeatability, and reliability in functional circuit tests.

**Job Accountabilities**

- Continuously optimize mechanical designs to improve test speed, accuracy, and repeatability.
- Provide technical support to production and quality teams, ensuring that test fixtures are maintained and correctly used on the production floor.
- Document mechanical designs, processes, and test setups, ensuring all files are maintained according to company standards.
- Ensure that mechanical systems and fixtures comply with relevant industry standards and safety regulations.

# R&D EMBEDDED SOFTWARE ENGINEER

A key role in designing, developing, and optimizing embedded software for cutting-edge products and systems. This position requires a deep understanding of embedded systems, real-time programming, and hardware-software integration. You'll collaborate closely with hardware engineers, product designers, and fellow software developers to bring advanced technologies from concept to reality.

## Job Accountabilities

- Design, implement, and test embedded software for microcontrollers, SoCs, and custom hardware platforms.
- Develop firmware for sensors, actuators, communication interfaces (e.g., SPI, I2C, UART, CAN, Ethernet).
- Optimize code for performance, memory usage, and power efficiency.
- Collaborate with hardware engineers to define system architecture and debug hardware/software interactions.
- Conduct feasibility studies, prototyping, and proof-of-concept development.
- Participate in code reviews, documentation, and version control (e.g., Git).
- Ensure compliance with safety, regulatory, and quality standards (e.g., ISO, IEC, MISRA).
- Support product validation, testing, and troubleshooting in lab and field environments.
- Stay current with emerging technologies, tools, and best practices in embedded systems.

## Knowledge / Skills

- Strong proficiency in C/C++ for embedded systems
- Familiarity with embedded development tools (e.g., JTAG, oscilloscopes, logic analyzers)
- Knowledge of microcontroller architectures (e.g., ARM Cortex-M, RISC-V, PIC, STM32)
- Understanding of digital and analog electronics fundamentals
- Ability to read schematics and datasheets, and work with hardware prototypes
- Strong problem-solving skills and attention to detail
- Excellent communication and teamwork abilities

# IT ENGINEER

A crucial role in ensuring the reliability, security, and efficiency of THMY information technology systems and infrastructure. This position is responsible for various tasks related to IT support, network administration, security management, and system maintenance to meet the organization's business objectives and user requirements.

**Job Accountabilities**

**Helpdesk Support**:

Provide first-line technical support and assistance to end-users regarding IT systems, hardware, software, and applications.

Log, prioritize, and resolve support requests in a timely manner, ensuring adherence to service level agreements (SLAs).

Troubleshoot hardware and software issues, diagnose problems, and implement solutions to minimize downtime and disruptions.

**Network Administration**:

Maintain and monitor network infrastructure, including routers, switches, firewalls, and wireless access points, to ensure optimal performance, reliability, and security.

Configure and manage network devices, protocols, and services, such as TCP/IP, DNS, DHCP, and VPN connections.

Implement security measures, access controls, and network segmentation to protect against unauthorized access and cyber threats.

**Job Accountabilities**

**Server Management:**

Manage server deployments, configurations, and maintenance tasks, including operating system installations, updates, and patch management.

Monitor server performance, resource utilization, and system logs to identify and resolve issues proactively.

Administer server virtualization platforms, such as VMware or Hyper-V, to optimize resource allocation and scalability.

**Backup and Disaster Recovery**:

Enforce IT security policies, procedures, and best practices to protect sensitive information, prevent data breaches, and ensure regulatory compliance.

Conduct security assessments, vulnerability scans, and penetration tests to identify and mitigate potential risks and vulnerabilities.

Implement and manage security controls, such as firewalls, intrusion detection/prevention systems (IDS/IPS), antivirus software, and encryption technologies.

# TECHNICIAN

The Production Technician is responsible for operating, maintaining, and troubleshooting production equipment to ensure safe, efficient, and high-quality output on the manufacturing floor. This role supports production schedules, performs quality checks, and helps implement continuous-improvement activities.

**Job Accountabilities**

- Operate production machinery according to SOPs and safety rules.
- Perform routine maintenance and basic troubleshooting.
- Monitor production metrics.
- Follow health, safety, and environmental procedures and participate in safety audits.
- Visual inspection of parts.
- Replace consumables and minor spare parts.

**Knowledge / Skills**

- Technical skills.
- Attention to details.
- Good communication and teamwork.
- Problem-solving skills.

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