Job Title: Engineer – 3D Vision & Robotic Application

Location: Penang
Company: Trieden Technology Sdn Bhd

☀ About Us

Trieden Technology is a fast-growing Malaysian automation company specializing in **3D robotic vision**, **AI-based inspection**, and **smart manufacturing solutions**.
We work with leading semiconductor, electronics, and industrial partners to deliver intelligent systems that bridge robotics, machine vision, and real-world production challenges.

If you're an engineer who loves solving complex problems, experimenting with 3D vision, and bringing robotics and inteligence to life — this is the place for you.

🚀 What You'll Do

You'll be part of our **3D Vision & Robotics Application Team**, working alongside senior engineers to design, test, and deploy real-world automation solutions.
Typical responsibilities include:

- Assist in the **development, integration, and calibration** of 3D vision systems with robotic arms.

- Support **vision algorithm testing**, camera calibration, lighting setup, and robot-vision synchronization.

- Conduct **hands-on experiments** using industrial cameras, structured light, and depth sensors.

- Participate in **robotic cell design**, robot path programming, and motion control setup.

- Collaborate on **proof-of-concept (POC)** projects — turning new ideas into working prototypes.

- Troubleshoot and analyze system performance (accuracy, repeatability, throughput).

- Document and present results to the engineering team and clients.

🎓 **Who We're Looking For**

Fresh graduates (or those with <2 years experience) from fields such as:

- Mechatronics / Robotics Engineering

- Electrical & Electronics Engineering

- Computer / Software Engineering

- Mechanical Engineering (with robotics or automation projects)

We value **curiosity, creativity, and initiative** more than experience.

Preferred Skills (Nice-to-Have):

- Familiarity with 3D vision technologies (structured light, stereo vision, ToF, LiDAR).

- Basic experience with robotic systems

- Understanding of image processing, OpenCV, or 3D point cloud processing.

- Basic programming in Python, C++.

- Interest in AI / machine learning applications in vision systems.

💡 **What You'll Gain**

- **Hands-on exposure** to industrial robots, 3D vision systems, and real manufacturing environments.

- **Mentorship** from experienced engineers and project leads.

- **Opportunities to grow** into Vision Application Engineer, Robotics Integration Engineer, or Project Lead roles.

- Access to **cutting-edge technologies** in automation, AI vision, and robotics.

- A dynamic, collaborative environment that encourages innovation.

❄️ **Why Join Trieden Technology?**

- Be part of Malaysia's new wave of **AI + Robotics innovators**.

- Work on **real customer projects** — not just lab experiments.

- Grow your technical and problem-solving skills through **R&D-oriented projects**.

- Enjoy a culture that values **learning, teamwork, and creativity**.

Send your resume to Judy.chew@triedentech.com