



PR/159522 | Staff Hardware Digital Engineer

Job Information

Recruiter

JAC Recruitment Malaysia

Job ID

1558166

Industry

Other (Manufacturing)

Job Type

Permanent Full-time

Location

Malaysia

Salary

Negotiable, based on experience

Refreshed

October 14th, 2025 12:01

General Requirements

Minimum Experience Level

Over 3 years

Career Level

Mid Career

Minimum English Level

Business Level

Minimum Japanese Level

Business Level

Minimum Education Level

Associate Degree/Diploma

Visa Status

No permission to work in Japan required

Job Description

Company Overview and Job Overview

A global leader in software-connected automated test and measurement systems is seeking a Staff Hardware Digital Engineer to join its engineering team in Penang.

In this role, you will lead the redesign and validation of hardware systems, focusing on replacing end-of-life (EOL) components while minimizing changes to software and hardware topology.

Key Responsibilities:

- Research and propose alternative components with minimal impact on system architecture.
- Simulate and implement designs using CAD tools (e.g., Mentor Graphics).
- Validate and debug hardware redesigns during verification and manufacturing builds.
- Conduct failure analysis and root cause investigations using structured methods (e.g., fishbone diagrams).
- Collaborate with manufacturing teams to integrate DFM inputs and improve product yield.
- Develop proof-of-concept designs to support redesign proposals.
- Document project progress and communicate solutions to stakeholders.
- Mentor junior engineers and lead technical documentation efforts.
- Create debug tools and training materials for manufacturing teams.

Key Requirements:

- Minimum 2 years of experience in analog/digital design, with expertise in board-level design or VHDL/System Verilog.
- Bachelor's or Master's degree in Electrical Engineering or Computer Engineering.
- Strong background in HDL IP design or digital circuit design.
- Experience with high-speed interface routing constraints.
- Proficient in CPU/SoC/Microcontroller circuit design.
- Skilled in using standard hardware lab equipment (oscilloscopes, logic analyzers, signal generators, power supplies).
- Familiarity with test automation using scripting or programming languages.
- Demonstrated ability to:
 - Diagnose and resolve technical issues effectively.
 - Learn new technologies and systems quickly.
 - Take ownership of product success and drive tasks to completion.
 - Manage time efficiently and work independently.
- Collaborate in fast-paced, team-oriented development environments.

Notice: By submitting an application for this position, you acknowledge and consent to the disclosure of your personal information to the Privacy Policy and Terms and Conditions, for the purpose of recruitment and candidate evaluation.

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Company Description