Agilan A

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SUMMARY

Detail-oriented Application Process Engineer with experience in testing, failure analysis, and troubleshooting. Skilled in distinguishing true failures from false failures, performing root cause analysis, and resolving fixture and machine-related issues. Focused on implementing corrective actions and improving test quality, yield, and process reliability.

EXPERIENCE

Testing Engineer -Application Process

Foxconn Hon Hai Technology India Mega Development Private Limited **September 2025 - Present, Bengaluru**

- Analyzed test failure symptoms and abnormal results to accurately differentiate true failures from false failures and prevent incorrect failure classification.
- Conducted detailed root cause analysis for product, fixture, machine, and process-related issues using test data, logs, and physical inspection.
- Diagnosed mechanical, electrical, and connectivity issues in test fixtures and equipment, implementing effective corrective actions to restore testing performance.
- Investigated recurring failure patterns and executed corrective and preventive actions (CAPA) to improve test reliability and reduce repeat failures.
- Collaborated with Production, Quality, Maintenance, and Engineering teams to resolve technical issues, minimize downtime, and improve overall test yield.
- Developed standardized test procedures and documented failure analysis findings, root causes, and improvement actions to ensure consistent test execution and continuous process improvement.

PROJECT

ANFIS BASED PWM CONTROL FOR ELECTRIC VEHICLE SPEED REGULATION USING AN INTELLIGENT ECU WITH ARM PROCESSOR

December 2025 - April 2026

- Developed an electric vehicle speed regulation system using ANFIS-based PWM control and an ARM processor-based intelligent Electronic Control Unit (ECU).
- Designed and implemented circuit connections based on circuit diagrams, ensuring effective integration of hardware components and control modules.
- Supported the development, programming, testing, and troubleshooting of the control system to evaluate PWM-based motor speed regulation and system performance.
- Contributed to project documentation and preparation of the final thesis, covering system design, implementation, testing, and results.

EDUCATION

Bachelor of Engineering

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY • Tiruchengode • 2025 • CGPA-7.29

CERTIFICATIONS

NPTEI-Smart Grid: Basics to Advance Technologies

Indian Institute of Technology Roorkee • 2024

- Gained knowledge of smart grid architecture, communication systems, smart metering, grid automation, and advanced power system technologies.
- Developed an understanding of demand-side management, distributed energy resources, renewable energy integration, and energy management systems.
- Enhanced knowledge of modern power system monitoring and control to improve grid reliability, efficiency, sustainability, and energy utilization.

SKILLS

Testing & Analysis: Test Failure Analysis , Failure Pattern Analysis ,Root Cause Analysis (RCA) , Test Data Analysis ,Log Analysis .
Troubleshooting: Teste Fixture Troubleshooting , Electrical Issues , Connectivity Issues.
Process Improvement: Corrective and preventive actions,Test Quality Improvement ,Test Yield Improvement , Process Reliability , Continuous Improvement ,Standardized Test Procedures.