

Vaishnavi S

Vaishnavi S | vaishnaviprashanth759@gmail.com | +91 6238083027

Objective

Experienced professional with a B.Tech. in Applied Electronics and Instrumentation (Honours) and a background as an Assistant Manager in FSD Operations at Tata Play Fiber. Seeking diverse opportunities to apply technical expertise and testing skills while contributing to organizational success and growth.

Education

- B.Tech. in Applied Electronics and Instrumentation (honours), 2018-22 (CGPA 8.72)
Rajagiri School of Engineering and Technology, Kochi
- Class 12th CBSE, 2017-18 (CGPA 8.98)
Amrita Vidyalayam, Kochi
- Class 10th CBSE, 2015-16 (CGPA 10)
Amrita Vidyalayam, Kochi

Skills

- Strong understanding of electronics, control systems, sensors, and measurement techniques.
- Proficiency in broadband telecommunication systems, including cable, DSL, and Fiber optics.
- Ability to analyse complex data in instrumentation systems and broadband telecommunication networks.
- Proficiency in programming languages such as C, C++, or PLC programming for automation and control systems.
- Competence in scripting languages like Python, VBScript for automating tasks and network configurations.
- Basic knowledge of Simulink, 8051, and MATLAB for application in engineering projects.
- Knowledge of industry-specific standards and regulations in instrumentation engineering.
- Familiarity with broadband telecommunication protocols such as DOCSIS, DSL, and GPON.
- Capability to identify and resolve technical issues in instrumentation systems.
- Troubleshooting skills to diagnose and resolve issues in broadband telecommunication networks.
- Effective communication with team members, clients, and stakeholders.
- Collaboration and coordination within cross-functional teams in the broadband telecommunication field.
- Experience in managing projects, ensuring timely completion of tasks, and meeting project objectives.
- Project management abilities for instrumentation engineering projects.

Work Experience

Assistant Manager – FSD Operations, Tata Play Fiber, Chennai (July 2022-Aug 2023)

- Demonstrated technical proficiency in installing and maintaining broadband equipment, ensuring optimal network uptime and performance. Employed advanced troubleshooting techniques, leveraging expertise in telecommunication protocols to resolve 90% of network issues within a 2-hour timeframe, minimizing service disruptions and enhancing customer satisfaction.
- Monitored and resolved network performance issues, utilizing analytical skills to identify root causes and implement effective solutions; successfully communicated technical concepts to customers, resulting in 25% increase in customer satisfaction.
- Led a 4-month project achieving 100% Point of Presence (POP) uptime, showcasing strong project management and resource allocation capabilities within set deadlines and budget constraints.
- Implemented customer service orientation strategies like 'happy calling', ensuring high customer retention and promptly addressing queries and concerns.
- Led a cross-functional team of 15 engineers and technicians, resulting in a 20% increase in network reliability and a 15% reduction in downtime through strategic task coordination and innovative problem-solving.

Projects

Item Identification and Weighing (2021-2022)

- Developed a system using machine learning for commodity recognition.
- Incorporated image processing and electronic sensors for precise weighing.
- Integrated RFID and Wi-Fi modules for efficient scanning and cart communication.
- Connected to an IoT cart for streamlined operations.
- Ensured quality assurance and maintained ethical conduct.

Footstep Power Generation from Piezoelectric Crystal (2020-2021)

- Harvested energy using piezoelectric technology from footsteps.
- Converted energy from AC to DC and stored it in a battery.
- Enabled mobile phone charging with a power management system.
- Promoted renewable energy for sustainability.
- Ensured safety and reliability through quality standards.

Training and Industrial Exposure

Internship at Graphene Automation, Kakkanad, Kochi

- Learnt basics of Process Flow Diagrams, P&ID and Loop diagrams. Developed understanding of industrial processes and visualization through PFDs and P&IDs, including control loops with sensors and actuators.
- Knowledge on pumps and valves. Familiarity with various pumps (centrifugal, positive displacement) and valves (control, safety) for fluid control in industrial systems.
- Covered wider perspective on boiler control systems. Explored boiler control systems, including temperature/pressure regulation, fuel/air control, combustion control, and emissions monitoring.
- Basics of PLC programming. Acquired foundational knowledge in PLC programming (ladder logic, structured text), digital/analogue I/O modules, and troubleshooting techniques for industrial automation.

Certifications of Achievements

Completed the **NPTEL** courses on:

- Fuzzy Sets, Logic, and Systems and Applications with a score of 55%.
- Introduction to Internet of Things with a score of 46%

Languages Known

- English
- Hindi (Intermediate)
- Tamil (Intermediate)
- Malayalam