

Manufacturing Quality Management

PROJECT SPECS

PROJECT TYPE: Custom Enterprise Software

TECHNOLOGIES: Java, EJB, JPA/Hibernate, Angular, AWS, Groovy & Grails, Grunt, ExpressJS, NodeJS

SERVICES PROVIDED: Business Analysis, Application Design, Software Development, Quality Assurance, Project Management,

TEAM:

Project Manager/ Business Analyst
Backend Developers,
Frontend Developers,
UI&UX Designer,
QA Engineers,

SCOPE: Development, Enhancement, Maintenance, IT infrastructure and Support

ENGAGEMENT MODEL: Managed service

DURATION: 10+ years

TESTIMONIAL

Riverstone is a professional business partner of exceptional quality. They provided several talents over the course of a few years and each one of them were a great fit for our needs. I would look to Riverstone to raise the bar in any QA organization, no matter how big or small.



Muthu Arumugam,
VP of Engineering
Cambridge Blockchain

Client: Enphase Energy

Industry: Renewable energy, Solar power generation & storage

Website: <https://enphase.com/>



OVERVIEW

Enphase designs and manufactures software-driven home energy solutions that span solar generation, home energy storage and web-based monitoring and control.

BUSINESS CHALLENGE

Enphase utilizes contract manufacturing facilities located globally. The contract manufacturers procure raw materials, manufacture and ship finished products to Enphase warehouses and customers. Given the variability in manufacturing, finished products didn't consistently meet the quality requirements.

The company needed a system to enforce product quality throughout the manufacturing and distribution supply chain.

OBJECTIVE

Develop an enterprise scale system to enforce quality and reliability throughout the life cycle of all products starting with manufacturing to decommission.

KEY ACHIEVEMENTS

- Developed and continue to maintain a portfolio of applications for Enphase Energy
- Enterprise application for manufacturing quality and reliability management
- eCommerce portals for customer sales & upgrades
- Data analytics application for market research
- Overall ~25 person years' effort

SOLUTION

Riverstone developed a custom enterprise solution to track and enforce quality throughout the life cycle of all products. The solution is deeply integrated with all key operations of the company including manufacturing, distribution, installation, customer support and returns (RMA).

DISTINCTIVE FEATURES

- Hybrid cloud infrastructure with multiple local servers in each manufacturing facility to ensure ultra-low latency
- Ability to place products on hold at any stage in the manufacturing and distribution supply chain
- Support Advance Shipment Notice (ASN)
- Near real-time operational reports & analytics
- Integration with suppliers Manufacturing Execution System (MES)
- Support long-term reliability testing and analysis of field failures/returns
- Support for OEM products