COMPANY PROFILE / 2026

Engineering technology. Delivering practical solutions.

Embed Technologies | Founded in 2000 | Visakhapatnam, Andhra Pradesh, India

Who we are

Embed Technologies specializes in research, development and commercialization of technology products and custom software. Our work spans telecommunications software, connected devices, embedded engineering and enterprise applications.

We work with organizations that need dependable software, practical systems integration and solutions designed around operational requirements, from prototyping to testing and ongoing improvement.

Engineering services

- Application Development & Integration - Custom web, mobile and desktop applications, APIs and integration.
- IoT & Embedded Systems - Connected device applications, embedded platforms and sensor integration.
- Digital Transformation - Smart monitoring, automation and operational data workflows.
- Manufacturing Management - Production, inventory, resource and workforce management software.
- Software Testing & QA - Functional, automation, integration, performance and compatibility testing.
- Agile Software Development - Iterative engineering, collaboration and release-focused delivery.

ENGINEERING PRACTICE

Specialist capability across connected systems

Selected areas of expertise

- Embedded systems & IoT - Device firmware, edge applications, hardware interfaces and connectivity.
- LoRaWAN & MQTT - Wireless device connectivity, telemetry and messaging integration.
- Linux & Rust - Systems software, service integration and embedded Linux workflows.
- Software-defined radio - Signal capture, spectrum analysis and RF-oriented software.
- Telecommunications - HFC, DOCSIS, optical networks, device diagnostics and management.
- Network management - Monitoring, alarms, inventory, device configuration and operational dashboards.

How we work

Understand requirements, design the right architecture, implement and integrate iteratively, validate through testing, and refine based on operational feedback.

Client experience

Our website presents engineering collaborations with enterprise clients in telecommunications, connectivity and electronics. Specific project results and customer endorsements are shared only with approval.

PRODUCTS & SOLUTIONS

A portfolio built around real-world operations

Selected product and client-solution portfolio

- MSAM - LoRaWAN-based field management for 1.8 GHz HFC amplifiers.
- D4 Amplifier App - Configure and monitor extended-spectrum amplifiers from iOS and Android.
- Opti-Trace Server - Configure DOCSIS 4.0 amplifiers through a browser and USB-connected server.
- IoT and Raspberry Pi - Build and integrate IoT prototypes and device-connected applications.
- CORView - Discover, monitor and organize CHP networks from one operational view.
- OneApp - Bring craft, element and shelf management together in one platform.
- RFoG Web Application - Monitor optical nodes and Ethernet connections with an accessible topology view.
- SugarCRM - Support sales, marketing and service workflows with connected CRM information.
- Passive Optical Networks - Configure and monitor GPON and EPON infrastructure.
- Craft Management System - Engineering tools for bring-up, testing and service operations.
- Element Management System - Configure and monitor connected nodes, hubs and chassis.
- Shelf Monitoring System - Track modules, alarms and connected chassis from a central desktop tool.
- ICEPIC3 - Debug PIC12, PIC16 and PIC18 microcontroller projects.
- Opti-Trace Web - Monitor telecommunications hardware across daisy-chained shelves.

Start a conversation

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