Software-led engineering.
Complete product development.

We help OEMs, equipment manufacturers and technology companies build connected devices, modernize industrial systems and turn ideas into reliable products.



INDUSTRIAL HMI / EMBEDDED SYSTEMS / CONNECTED EQUIPMENT

Core capabilities

1 **Embedded firmware**
C/C++, STM32, ESP32, FreeRTOS, low-power devices and secure updates.

2 **Industrial HMI**
Custom touchscreen interfaces, TouchGFX and controller integration.

3 **Industrial communication**
CAN, BLE, MQTT, device connectivity and data acquisition.

4 **Custom industrial software**
Windows C++ tools, configuration, diagnostics and test applications.

5 **Machine vision**
OpenCV inspection, defect detection and production data processing.

6 **Hardware through partners**
PCB design, electronics and prototyping with trusted collaborators.

One engineering partner. Multiple disciplines.

Software and firmware are our core strengths; trusted external hardware partners extend our capability to complete electronic products.

Engineering experience

Practical development experience spanning embedded user interfaces, intelligent devices and software for industrial processes.



Industrial control interfaces

Development of touchscreen control interfaces with dynamic content, custom widgets, CAN-based integration and a PC simulator for testing.

STM32 / TouchGFX / CAN / C++



Connected and low-power devices

Firmware for connected sensing products, including low-power operation, motion data, Bluetooth communication and device testing.

BLE / Sensors / Firmware / Embedded C



Machine vision and PC software

Industrial image-processing and defect-detection software, supported by configuration, data acquisition, reporting and integration tools.

C++ / OpenCV / Windows / Data capture

How we collaborate

Dedicated engineering support / Product development / Modernization / R&D partnerships

Let's discuss your next product.

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Illustrative imagery; project descriptions reflect M TWELVE engineering experience.