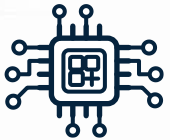
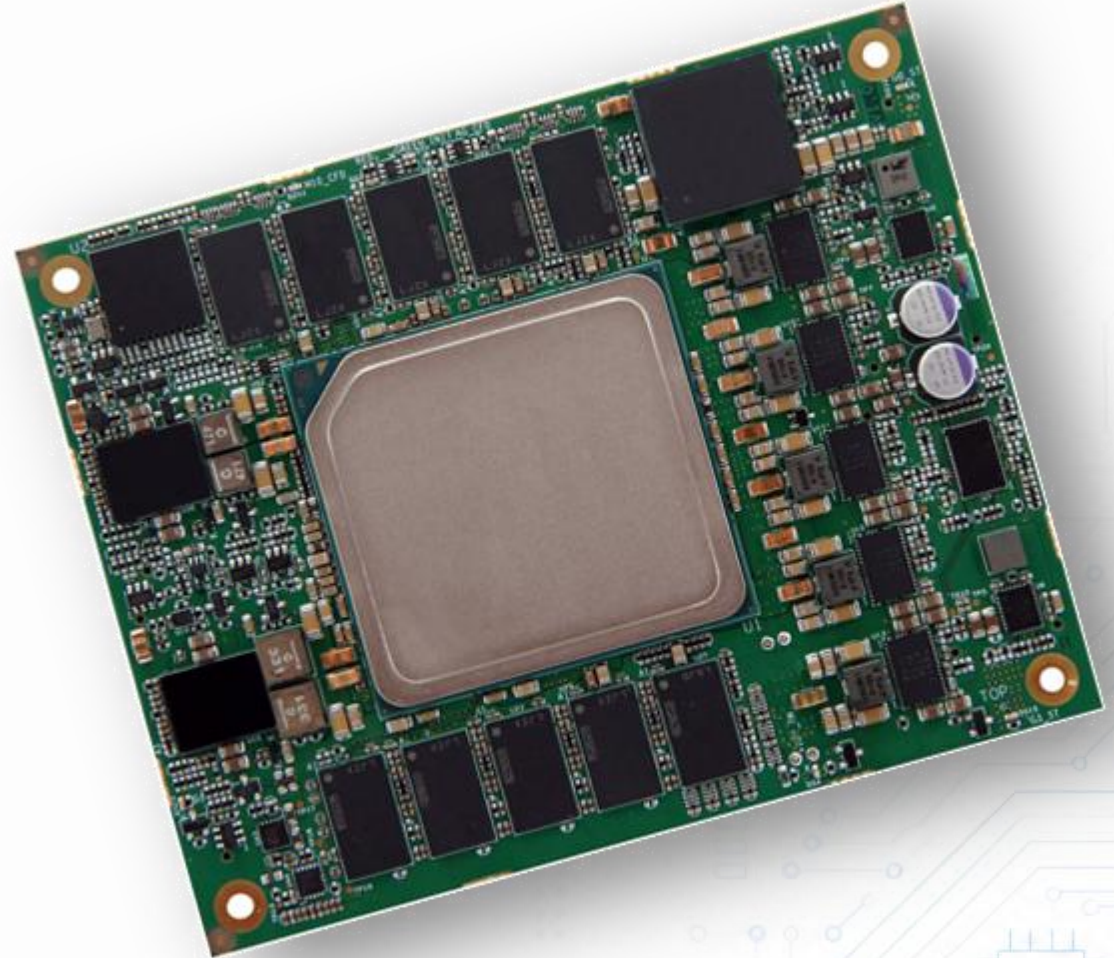


**EMBEDDED  
EXPERTISE**

Engineering services for  
**complex embedded  
systems**

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Platform  
architecture



Heterogeneous  
compute



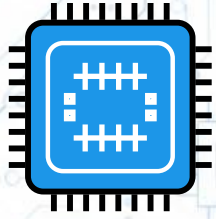
Edge AI



Cybersecurity

<https://emb-exp.com>

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# What we do

Practical engineering support for embedded platforms, from low-level bring-up to system architecture and long-term maintainability.

## Platform architecture

Design powerful embedded platforms that stay maintainable, scalable and sustainable

## Linux & Yocto, RTOS

BSP and SDK development, build recipes, kernel, bootloader, drivers and long-term support.

## Cybersecurity

CVE management, hardening, secure boot, update strategy and attack surface reduction.

## Heterogeneous compute

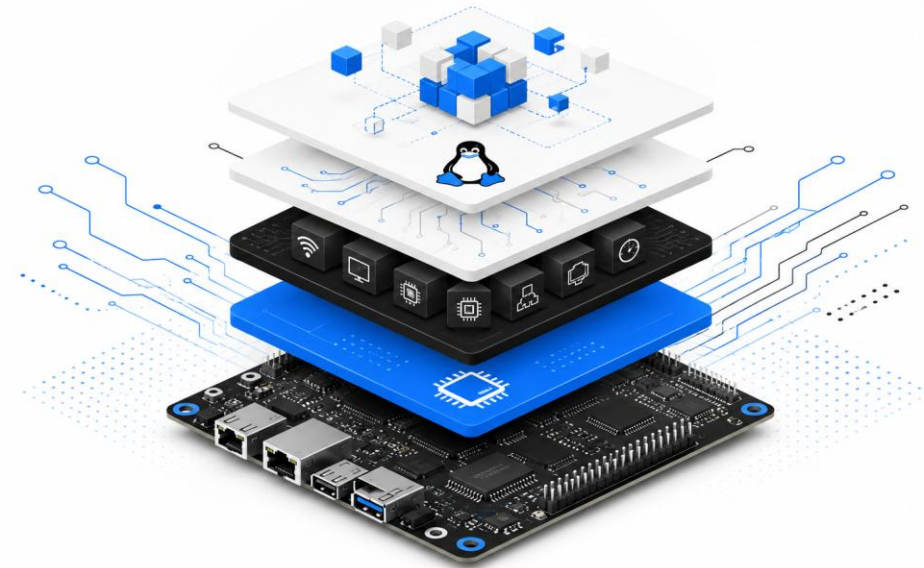
Linux + RTOS, Cortex-A + M  
Cross-domain communication  
CPU / MCU / GPU / VPU / NPU

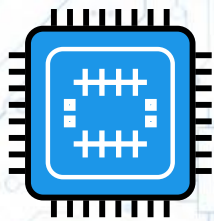
## Edge AI & vision

NPU/GPU integration, video pipelines, TensorFlow Lite, XNNPack, acceleration trade-offs.

## Knowledge transfer

Consulting, advisory, platform selection, design & code reviews, training





# When to call us

Situations where external senior support can create immediate value, without replacing your internal team.

1

## New platform & migration

New SoC, new technologies, custom BSP, SDK generation, Yocto upgrade

3

## Integration under load

Linux + RTOS, video pipes, edge AI, hardware delegation, field buses

5

## Security & maintenance

Secure boot, CVE assessment & remediation, hardening, exposure & blast radius reduction, OTA

2

## BSP stabilization

Kernel panics, unstable drivers, difficult bring-up, technical debt

4

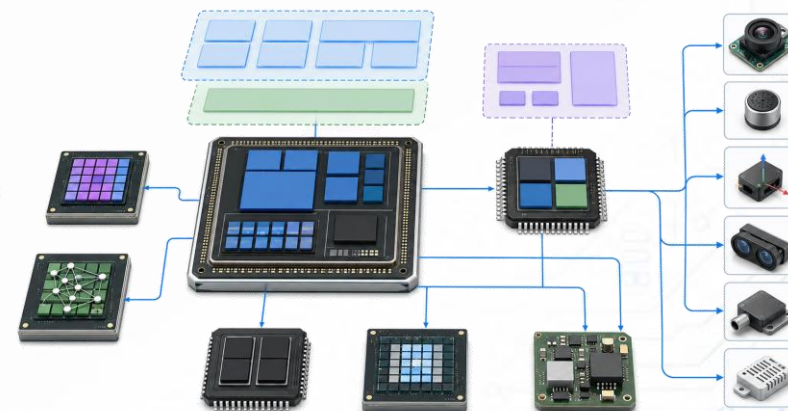
## Performance issues

Slow boot, jitter, latency, resource contention, poor hardware delegation

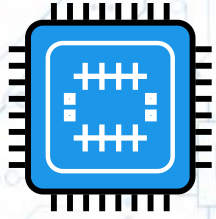
6

## Senior support

Project recovery, critical milestone, team overload, missing expertise, independent reviews



**Typical entry point:** one concrete technical need. Broader architecture or recovery work comes later, once trust is established.



# Reference partners

A selection of customers across industry segments.  
From low-level BSP development to long-lifecycle deployment.

TRANSPORT



### ATESS event recorder

Heterogeneous i.MX8 Linux + RTOS platform for real-time acquisition and event recording.

Yocto • FreeRTOS • Cortex-A/M • Cross-domain communication

INDUSTRY



### Blast initiation systems

Stabilization and long-term maintenance of multiple rugged embedded Linux platforms.

BSP • Boot optimization • Protocol hardening • CVE remediation

DEFENSE



### Embedded acoustic ML inference

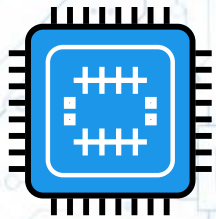
Deployment support for embedded acoustic AI on heterogeneous compute architectures.

DSP • GPU • NPU • XNNPack • TensorFlow Lite

<https://emb-exp.com>

More trusted partners:





# Who we are



## Thierry Durand

Founder – Embedded Expertise

Your unique point of contact, backed by a network of senior experts.

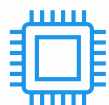
Senior embedded systems engineer with 30+ years of experience across semiconductor design, hardware, software and system architecture.

Hands-on when needed, especially where platform architecture meets implementation.



### Practical engineering

Real-world constraints and measurable results



### In-depth expertise

Bridging platform architecture with hardware & software



### Independent perspective

Senior expertise aligned with technical reality



### Long-term commitment

Long-term partnerships built on technical continuity



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Tours, France



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