Dynamic Devices Ltd

Leading Embedded Systems & IoT Solutions Provider

📍 Liverpool, UK • Established 2004
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🌐 www.dynamicdevices.co.uk

20+ Years Experience

£2.2M Funding Secured

4 Strategic Partners

100% Project Success

What We Deliver: Dynamic Devices transforms complex embedded systems challenges into secure, compliant, and innovative solutions. We deliver cutting-edge IoT platforms, regulatory-compliant systems, and embedded Linux solutions that drive your business forward in today's connected world.

🟦 Core Services

⚡ Embedded Linux Solutions

Custom embedded Linux platforms built on Yocto Project with security-first architecture and open-source innovation.

✓ Linux kernel development and customisation

✓ Yocto Project integration and BSP development

✓ Device driver development and hardware bring-up

✓ Real-time system optimisation

✓ Containerisation and deployment strategies

🌐 IoT Platform Development

End-to-end IoT solutions from sensor integration to cloud connectivity with proven MQTT expertise and 5G capabilities.

✓ MQTT protocol implementation and optimisation

✓ Cellular IoT and 5G application development

✓ Edge computing and local data processing

✓ Sensor integration and data acquisition

✓ Cloud platform connectivity and APIs

🔒 Security & Compliance

Comprehensive security solutions including CHERI memory safety, regulatory compliance, and DevSecOps integration.

- ✓ CHERI-enabled embedded systems
- ✓ CRA/CE-RED regulatory compliance
- ✓ Secure boot and cryptographic security
- ✓ DevSecOps pipeline integration
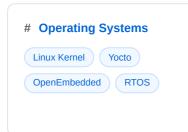- ✓ Security audit and penetration testing
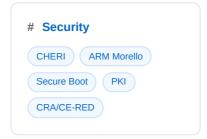
🚀 Advanced Technologies

Cutting-edge solutions in AR/VR, ultra-wideband positioning, space technology, and next-generation applications.

- ✓ Ultra-wideband positioning systems
- ✓ AR/VR platform development
- ✓ Space-qualified embedded systems
- ✓ V2G and EV charging infrastructure
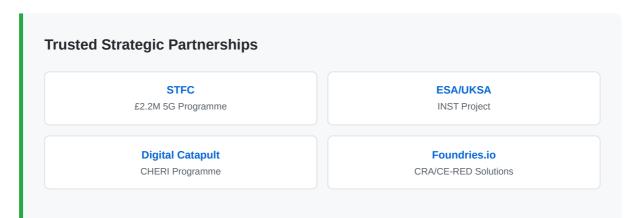- ✓ Emergency services and critical systems

■ Technology Stack

Operating Systems

Linux Kernel | Yocto | OpenEmbedded | RTOS

Connectivity

MQTT | 5G IoT | Cellular | WiFi | UWB

Security

CHERI | ARM Morello | Secure Boot | PKI | CRA/CE-RED

Development

C/C++ | Python | Docker | Git | DevSecOps

Trusted Strategic Partnerships

STFC
£2.2M 5G Programme

ESA/UKSA
INST Project

Digital Catapult
CHERI Programme

Foundries.io
CRA/CE-RED Solutions

Innovate UK Competition Winner	**V2G EVSE Ltd** Technology Partnership

▇ Why Choose Dynamic Devices

Proven Track Record

20+ years of successful project delivery with government and commercial clients. Consistent delivery of complex embedded systems projects on time and within budget.

Technical Excellence

Deep expertise in cutting-edge technologies with strong commitment to open-source innovation. Active contribution to Linux kernel and embedded systems community.

Strategic Partnerships

Established relationships with leading technology organisations and proven ability to secure competitive funding for innovative projects.

Innovation Leadership

First-mover advantage in emerging areas like CRA/CE-RED compliance and CHERI-enabled embedded systems. Continuous innovation in IoT and security.

Ready to Transform Your Embedded Systems?

Let's discuss how Dynamic Devices can deliver your next embedded systems or IoT project.

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