

Embedded systems optimisation

The growing importance of embedded software as a differentiator, combined with increasing product complexity and frequent release cycles, are leaving companies with less and less time to develop or improve a product.

The trade-offs required to bring a product to market quickly can mean that performance or reliability problems appear late in the development process.

Optimising your embedded system

Often the embedded system may not operate reliably or meet performance targets. Performance or reliability problems may even be found by end-users after a product is released, which can be damaging to a company's reputation.

Isolating, identifying and correcting these problems together requires specialist expertise. Embedded system troubleshooting and optimisation are carefully managed processes that can correct defects, improve system performance, enhance reliability or add new functionality.

How can we help?

We offer a range of services to help troubleshoot and optimise your embedded software. This can range from fast turnaround investigation and diagnosis to longer-term strategic product improvement projects.

OVERVIEW

- High quality and reliable embedded software solutions
- More than 30 years experience
- Effective blend of embedded talent, tools and industry specific experience

ABOUT US

Pebble Bay is an embedded software development company providing specialised solutions that enable customers in a range of industry sectors to build reliable, high-performance and easily maintained embedded systems.

With vast project experience and specialist market expertise, we have a proven ability to significantly reduce development time and minimise project risk and cost.

WHY PEBBLE BAY?

- Extensive embedded experience
- Strong project management
- Speed and increased time to market
- Lower project lifecycle costs
- Reduced project risk
- Strong partnership network

Our service

As part of our service we:

- Analyse the existing behaviour of the system to understand current performance and reliability problems
- Understand the business impact of these problems
- Identify what areas of the system need improvement
- Develop proposed improvements
- Agree proposed improvements with customer
- Implement proposed improvements
- Ensure the improved software meets functional, performance and reliability targets
- Manage the project using our proven process to ensure the project status is always visible and any risks are tackled head-on

CASE STUDIES

- Optimised embedded system by designing and developing new hardware for industrial heating control unit.
- Optimised open-source software to increase bandwidth and reduce latency of video stream for a military customer to stream video over ethernet.
- Optimised and improved embedded system for customer prototype to deliver high-definition video over ethernet.

Visit the case studies section on www.pebblebay.com to read about these and other success stories.

Why Pebble Bay?

There are several benefits that set us apart, including:

Highly effective project and quality management

We actively manage all embedded projects, minimising your effort. Our approach is disciplined and pragmatic, keeping you fully informed throughout. This has given us an enviable track record of efficient, on-time and within-budget delivery. We adopt a similar approach to quality management, allowing us to deliver reliable and easily-integrated solutions.

Scalable solutions

We provide embedded software development and consultancy services covering all product lifecycle phases, from initial feasibility study through to system development and product improvement.

Strong technical focus

We have unparalleled experience of hardware and software integration and the development of low-level software that forms the basis of high-performance embedded systems.

Flexible partner resources

Our network of partners enables you to benefit from specialist resources for software, hardware and FPGA design. We provide a single point of supply to deliver your project in conjunction with our partners.

“We have worked with Pebble Bay and in all cases we have found the standard of work extremely high, without failure and delivered on time, complete with full support documentation.”

SIEMENS