

Aspire Design Ltd

Introduction

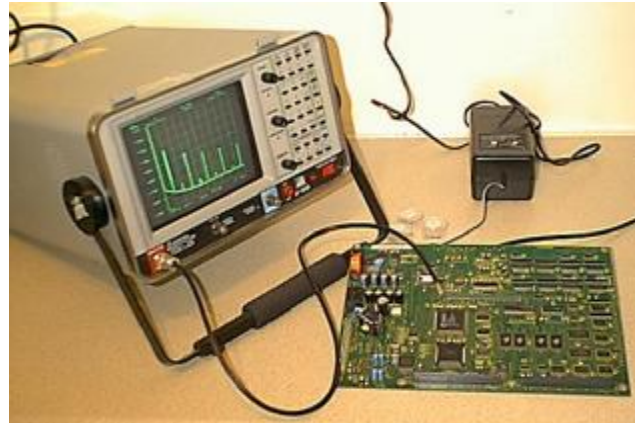
Aspire Design Ltd has been providing a range of electronic design services, since 1994. Our expertise has been used for low volume aerospace to higher volume automotive, industrial and consumer products.

Design & Specification

We provide a full electronic design service for new and old projects including,

- Detailed Design
- Tolerance Calculations
- Error budgets
- Design Verification
- Testing methods
- Simulation

Our electronic hardware design experience covers Analogue, RF, Power and Digital electronics. We have taken a major part in the design of many small and large products, including Industrial relay controllers, Smart Card custom IC's and Aircraft engine controllers.



Analogue Design

Amplifiers, linear and switch mode power supplies, oscillators, PLL, resonate circuits, filters, interface, A to D and D to A, precision rectifiers, thermocouple interface, instrument amplifiers, strain gauges etc.

Digital Design

ASIC's, PLD's, FPGA's, microprocessor circuits, DSP micros, DSP filters etc.

Software

Real time control, Assembler, embedded and PC applications, C/C++, Visual Basic.

Product Development

We are able to project manage and provide technical expertise throughout the product development lifecycle. from concept to manufacture.

The product design process is very complex and requires good project management to keep the product delivery to schedule. To prevent long delays you must have very skilled people, who will quickly solve the many problems that will occur during the main product design process stages.

Here are six basic design skill sets required during product development,

- Electronic hardware development
- Mechanical development
- Product software development
- Production process design
- Production equipment design
- Product verification to prove the product

Support

Problem solving, EMC Radiated, conducted and immunity, ESD protection, Thermal calculations, PCB layout.

Aspire Design Ltd

Product Design,
Design Support
and Consultancy

Independent
professionals in product
and electronic design

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Aspire Design Ltd

Specialists in,

Product development : Managing or supporting your current product development effort to ensure product performance and time scales are met.

Innovation : This is our area of excellence.

Design support : Supporting EMC design, design calculations, PCB layout etc.

Software support: Developing embedded product software or PC application software.

Product Specification : Preparing product specifications.

Production test : Specifying production test equipment and calculating the production test limits.

Product Support : Solving problems with existing or new products.

Product verification : Determining the testing required to verify the product before it is released into the field.

Aspire Design Ltd



Director

Melvin P Clarkson, BSc Hons, CEng, MIEE

Melvin's experience in industry covers a broad spectrum. He has worked with aerospace, industrial, automotive and consumer sectors in various roles from design to management.

He has been providing innovative solutions and designs to help reduce costs, increase functionality and most of all maintaining the performance targets required on time.

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