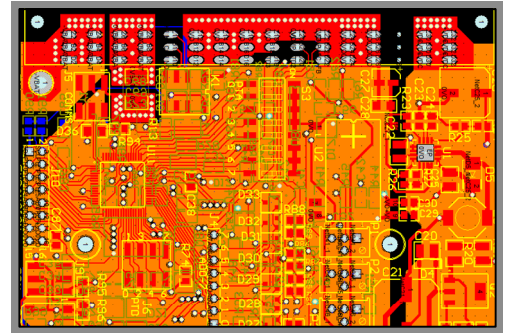


INTRODUCTION

*Welcome to Tarbat Electronic Solutions Limited***ABOUT US**

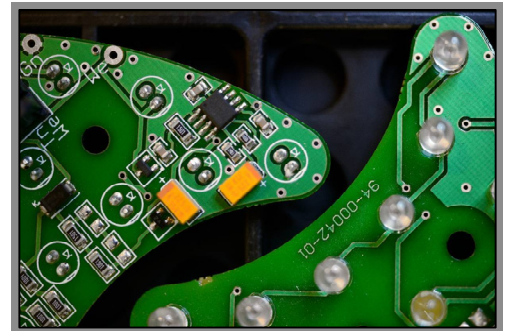
From our base in Keith, in the North-East of Scotland, we offer bespoke electronic & power electronic design & manufacturing solutions to Original Equipment Manufacturers (OEMs) in the Offshore, Nuclear, Industrial, Automotive & Commercial Refrigeration markets.

We have over 30 years experience in the design & development of electronic control & monitoring products for these markets. Our client base includes blue chip PLCs, public bodies and private limited companies

**HOW YOU CAN BENEFIT**


You can utilise our Design Engineering resource as a flexible extension to your own R&D / Engineering team.


By letting us take care of electronics requirements capture, design, development, prototyping, validation, qualification, procurement and manufacture, you can allow your own resources to remain focussed on your core competencies, applications & fields of interest.

**WHERE WE CAN HELP**

- ODM/OEM Design, Manufacture & Supply
- Concept, System & Product Design
- Electronics & Power Electronics Detailed Design
- Technology Transfer
- Custom Cable Assemblies, Custom Plastics
- Electronics Parts & Products Procurement & Supply
- Consultancy, Troubleshooting, Project Unblocking
- Web Design, Photography, Copy Content

**CONTACT US** *to find out more...*

 Tarbat Electronic Solutions Limited
59 Fife Street
KEITH
AB55 5EG, Scotland

 +44 (0) 1542 882 261
+44 (0) 771 510 5580

 sales@tarbat.com

 www.tarbat.com



*"...extremely pleased with the design
and manufacture work provided*

*...will continue to use the company's
in-depth knowledge and expertise
as we continue to grow..."*

- MD, global subsea excavation business

ELECTRONICS ODM

Original Design Manufacturer (ODM): “A company that designs and manufactures a product as specified and eventually rebranded by another firm for sale” - Wikipedia

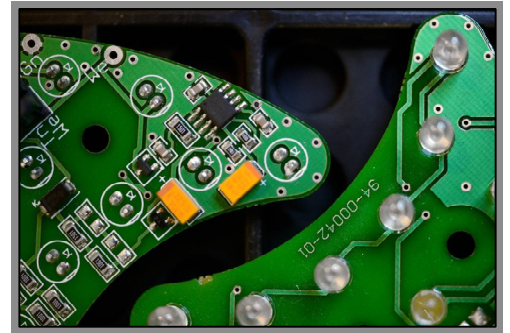
ELECTRONIC PARTS, ASSEMBLIES, PRODUCTS

We define, design, develop, manufacture and supply custom electronics assemblies, parts and products to a number of clients across industrial, marine, automotive and commercial market segments.

Engineering design work, as well as low- and medium-volume production work is carried out at our Keith premises. For higher production volumes we source product from our carefully selected partners in the UK, Europe & Far East, who can furnish us with high quality assemblies at competitive prices.

All products are fully defined and revision controlled within our own documentation processes. By default, all products are supplied as RoHS compliant (lead-free) but we also supply leaded assemblies on request.

We can offer you a single point of supply for almost anything you may wish to purchase. Backed up by assessment, quality monitoring & support from an experienced Design Engineer.





CAPABILITIES

- Power / electronics / mechanical – design & supply
- PCB design – schematic, layout, prototype & supply
- Custom Plastics – concept, design, tooling & supply
- Custom & off-the-shelf – source & supply
- Obsolescence – replacement product design & supply
- Auto – wiring consolidation & signal conditioning modules
- Top-level assemblies – box build & panel build
- Harsh environment – subsea, oil & gas, military, nuclear



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“...reputable and able to produce a great product, even [at] short notice”
- Manager, OEM customer
for high volume assemblies

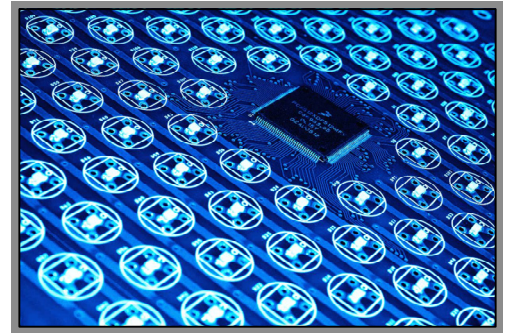
ELECTRONICS DESIGN

*Take advantage of our 35 years in-depth experience
in all aspects of Electronic Product Design*

CONCEPT & SCHEMATIC

Working from your product requirements specification, we can develop the hardware & firmware concept, through to detailed circuit schematics.

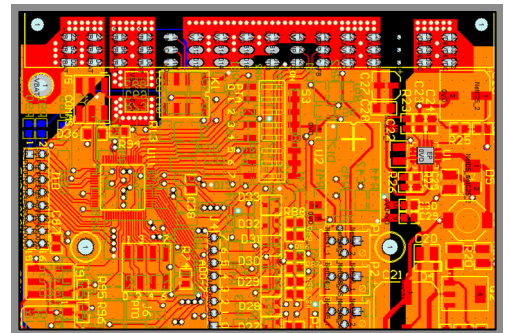
In addition, where there is no formal specification, we can work with you to develop the concept & specifications, based on what your application needs.



PCB LAYOUT

In arduous situations, such as within Power Electronics designs, it is crucial that the specialist knowledge and design constraints of the schematic designer are communicated to and understood by the layout designer.

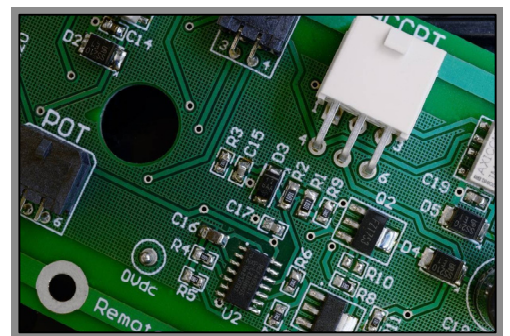
By using the same experienced Design Engineer to implement both tasks concurrently, we ensure that the layout is effective with respect to performance & operational reliability.



POWER ELECTRONICS & EMC-ROBUST DESIGNS

We have extensive design experience in the field of Power Electronics, having designed power switching & control circuits, to component level, for complete Industrial AC UPS systems and 3ph AC VSDs.

This experience has given us an in-depth understanding of parasitic circuit elements and designing for Electromagnetic Compatibility.



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*"...system is now performing
better than it ever did before."*

- Nuclear customer,

Product redesign following obsolescence

CABLE ASSEMBLIES

*A provider of high quality bespoke/custom cable assemblies
for control, signal, power & harsh environment*

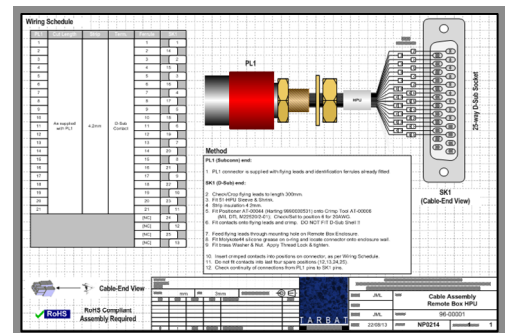
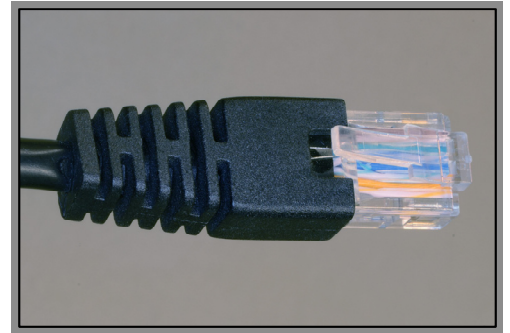
CABLE ASSEMBLIES – CONTROL & SIGNAL

We manufacture and supply custom cable assemblies to a number of clients, across various industrial, marine, automotive and commercial applications.

Low & medium volumes are hand assembled at our Keith premises, where we have a range of connector tooling available.

If you require higher volumes then our carefully selected partners in the Far East can supply high quality assemblies, including overmoulding of connectors (e.g. D-types; RJ-45, etc.), at lower cost.

All cable assemblies are fully defined and revision controlled within our own documentation processes. By default, all products are supplied as RoHS compliant (lead-free) but we also supply leaded assemblies on request.



CAPABILITIES

- Various tooling held locally, e.g. Molex, Daniels, Stocko
- Bespoke cable markings (heatshrink, ferrules, etc.)
- One-off & prototype builds
- Low & medium volumes – UK hand assembly
- Higher volumes – low cost, Far East assembly
- Overmoulding
- Harsh environment – subsea, oil & gas, military



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“One of our top 3 critical suppliers”

- Finance Director, OEM customer
for cables & plastics

*“...always delivered on time and
to a consistently high quality”*

- Development Manager, OEM customer
for cables & plastics

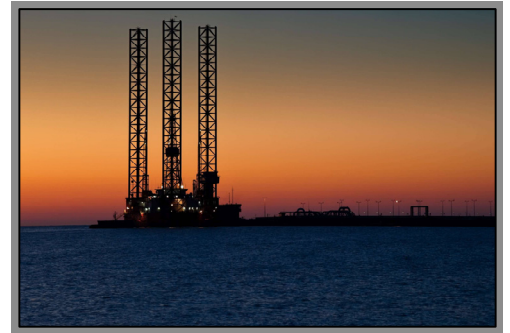
CONSULTANCY SERVICES

Benefit from our in-depth experience in Electronic Design, Troubleshooting, and in all stages of the New Product Introduction (NPI) Process...

PROBLEM SOLVING & PROJECT UNBLOCKING

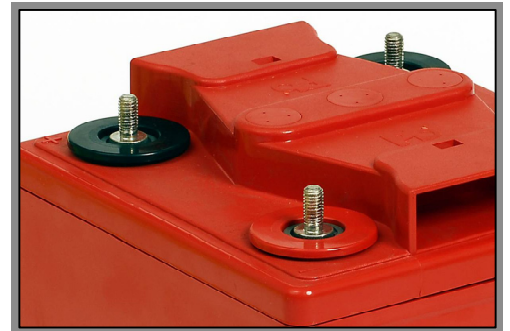
We can assist your Engineers with design issues, across a broad range of subjects. If your team is a bit overstretched, or even completely stuck, we can help in sorting out your problem.

We take a 'facts and fundamentals' approach to solving problems. Coupled with in-depth knowledge of many fields, this gives us a high vantage point from where we can clearly view the landscape of a complex problem and can quickly progress towards its resolution.



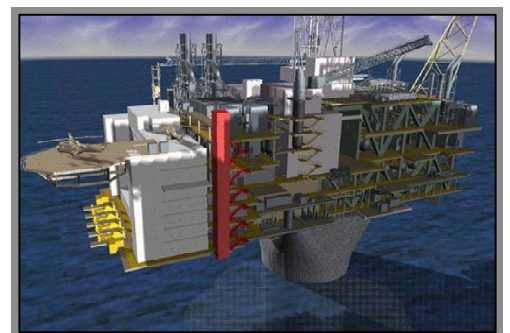
WHERE WE CAN HELP

- Electronics & Power Electronics
- System, Product, PCB & Component Level
- CE Marking, EMC (Electromagnetic Compatibility), LVD
- Mathematical Modelling
- Failure Analysis / Weibull Analysis
- Design Critique / Design Review
- Engineer Interviewing & Training





SPECIFIC AREAS OF EXPERTISE

- Power Conversion: Rectifiers; Inverters; DC-DC
- Industrial UPS, Batteries, Chargers
- AC Variable-Speed Drives
- EMC Design, Test, Debugging
- Analogue, Small Signal, Signal Conditioning



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"Spectacular progress"
- Managing Director, OEM customer
for 'project unblocking' consultancy

*What's your biggest problem?
It's more than likely that WE CAN HELP.*

WEBSITE DESIGN

“If you haven't made your website mobile-friendly, you should.

The majority of users coming to your site are likely to be using a mobile device” - Google

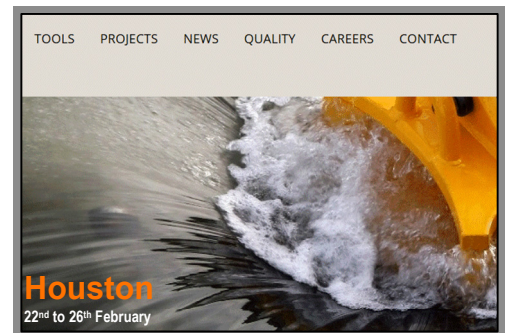
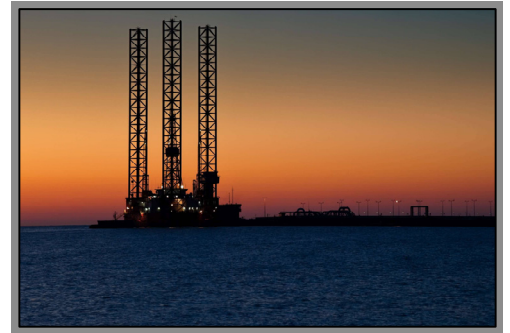
MOBILE-FRIENDLY SITE CREATION

We can help you to establish an online presence for your company, or to replace your existing website, by creating a modern 'responsive' site, designed for mobile & tablet viewing.

Your site needs to be usable with tablets & phones – not just with larger screens on computers & laptops. A 'responsive layout' is one that changes automatically, to suit the devices your visitors are using to reach your site.

We hand-code the individual HTML (content) and CSS (style) files that make up your website, to give you a professional quality site with efficient, fast-loading pages. Close attention to detail, with images edited down to individual pixel level, ensures that everything displays effectively within the visual theme of your site.

We can provide you with high quality graphic & photographic images, and can also work with you to produce effective copy content. The result? - A web presence with visual impact and with a powerful message to your customers.



WHERE WE CAN HELP

- Domain registration, hosting set-up, email set-up
- Site layout design
- Logos & custom graphic files design
- Creation of bespoke photographic images
- Handling of stock images
- Creation of PDF documents for download
- Search Engine Optimisation (SEO)



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“Tarbat's in-depth IT knowledge has been an invaluable support for our business, from our launch through to the present day.

We are truly grateful for their prompt and incisive support.”

- Director of PR consultancy