SORION DEVELOPMENTS

Electronic product design and development

Sorion Developments is our **electronics design and development** service dedicated to providing innovative solutions to meet your product needs.

The services encompass **electronics product design and development, printed circuit board design and embedded firmware design and coding**. We pride ourselves on providing a pragmatic, holistic approach to the development of your product from initial concepts through to a fully engineered solution.

SOLUTIONS

Electronic product design

PCB design and layout

Embedded firmware design

Re-engineering of existing products

Design for manufacture and test

WHY CHOOSE US

Complete in-house design service

Commercially appropriate approach to design
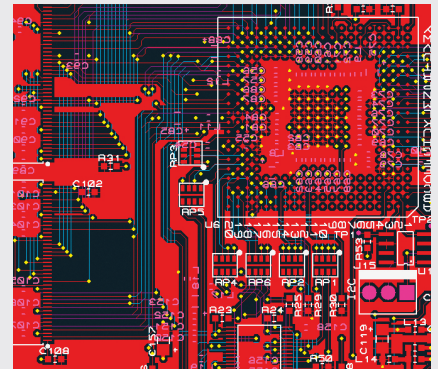
Flexible, reactive and professional service

INDUSTRIES

Automotive & Autosport

Defence

Industrial

Safety & Security

Technology

DESIGN AND DEVELOPMENT CAPABILITIES

- Embedded control systems using 8, 16 and 32 bit microcontrollers
- Analogue, digital and interface circuits
- General and automotive communications (RS232 / 485 / 422, USB, Ethernet, CAN, K, LIN)
- Device networking / Internet of Things
- Bluetooth / WiFi / Zigbee / Short Range Communications
- Product user interface design

SERVICES

CONCEPT
If you have a full technical specification we can provide a quotation or if your product idea is still germinating we can work with you to explore and capture your requirements to a specification document.

CIRCUIT DESIGN
Translating your requirements / specifications into **electronic functional circuit design** to serve your unique needs. Our extensive experience enables us to provide an innovative and pragmatic approach to deliver appropriate solutions.

PCB LAYOUT
In addition to laying out PCBs for circuits that we have designed, we routinely perform **PCB layout work for customers' own designs**. These are of varying complexity, from boards providing simple connectivity through to complex high density multilayer surface mount designs.

SOFTWARE DEVELOPMENT

Software design is performed using the most appropriate methodology for the project. Following design, most software is coded using C, using professional toolchains. The source code which has been written specifically for the project becomes the property of and is handed over to the customer at the end of the project, so your investment in intellectual property is safe and portable.

PROTOTYPING

Simple designs can be prototyped in-house or outsourced taking into account the customer's requirements and budget.

TESTING

Functionality is initially tested against the specification on the bench, typically followed by a handover to the customer for testing under operational conditions.

PRODUCTION HANDOVER

Finally when the product is signed off, all the necessary files are passed over for production. Sorion can provide support for setup and test of production units.

ACCREDITATIONS:

MICROCHIP
Authorized
Design Partner

IPC®
Designers Council
PCB Designer (CID)

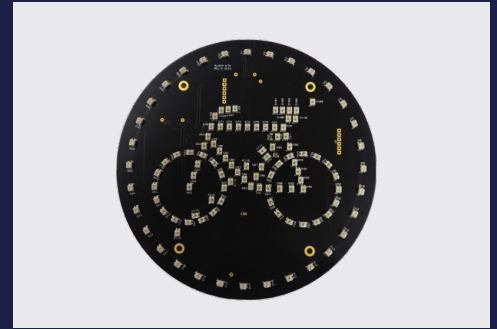LLOYD'S REGISTER QUALITY ASSURANCE
ISO9001

UKAS
QUALITY
MANAGEMENT
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ABOUT SORION

Founded in 1990 and with equipment installed and operated by major OEMs and Tier 1 suppliers around the globe, Sorion Electronics has an established reputation for innovation, quality, and reliability.

Your Partner for:

- Guided Assembly Process Control
- End of Line Test Systems
- Autonomous Mobile Robot Systems
- Ruggedised Electrical Connectors and Harnesses
- Quality and Traceability Reporting
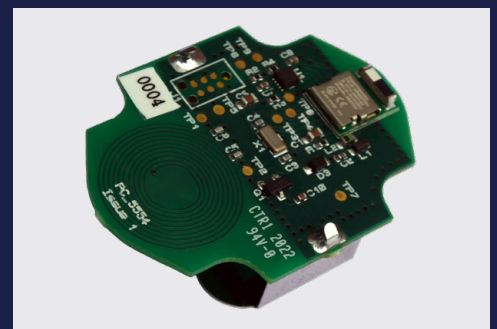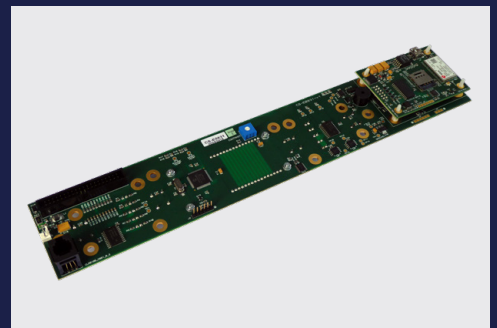- Electronic Product Design and Development

EXAMPLE PROJECTS

Cyclist undertaking detection system

High side driver output

Asset tracking tag

Commercial glass washer control and monitoring

Sorion Electronics Ltd
Magreal Industrial Estate
Freeth Street, Ladywood
Birmingham, B16 0QZ

Tel: **0121 454 8966**
Email: sales@sorion.co.uk
www.**sorion**.co.uk