



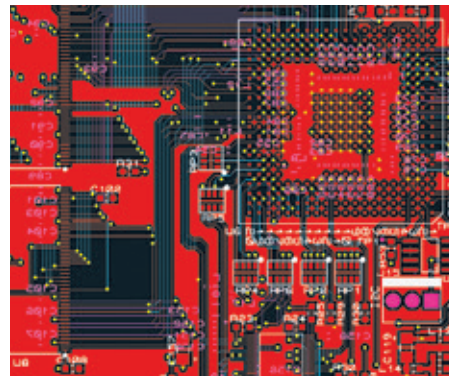
# Sorion Developments

As part of Sorion Electronics Ltd, Sorion Developments is our **electronics design and development** function 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 will work with you to develop initial concepts through to a fully engineered solution.

## 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



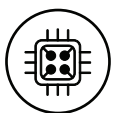
### CONCEPT

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.

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### 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 we can work with trusted specialist suppliers for more complex designs.



### 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.



## Example projects



Cyclist undertaking detection system



Emergency vehicle lighting mast control



Precision force gauge for machine setting



Chemical Ion probe measurement system

## Providing solutions for the following industries and more:

- Automotive
- Autosport
- Defence
- Industrial
- Safety
- Security
- Scientific
- Technology

## Accreditations:

