

## CASE STUDY

Innovation in engineering

**WORLD LEADING SENSOR ELECTRONICS  
TAKING YOU FROM REALITY TO THE CLOUD**

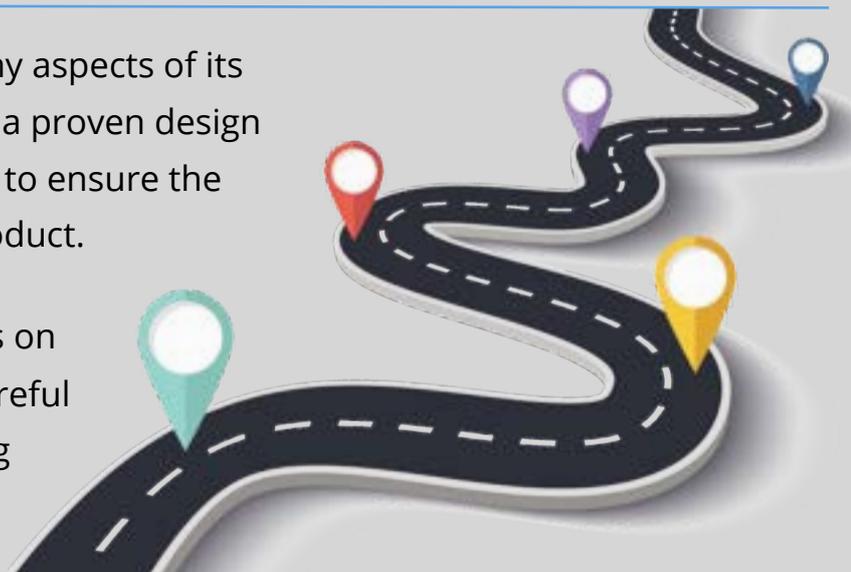
## ENGINEERING, DESIGN AND MANUFACTURING

World-class engineering design capabilities with access to the latest tools and software to complete your design or project on time and in budget

## TECHNOLOGY STRATEGY

To ensure the success of a product, many aspects of its design need to be considered. I.C.E. has a proven design strategy and agile development process to ensure the on-going supply and success of your product.

When we take on a project, any impacts on the design, such as product life cycle, careful component selection and manufacturing processes, are all taken into account.

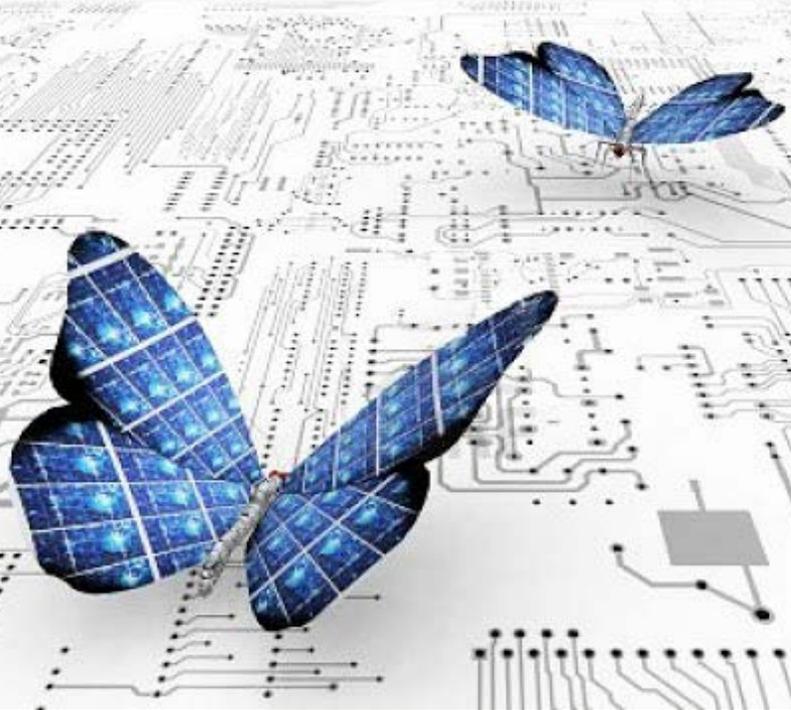


# ICE ELECTRONICS

0113 345 3131

| [enquiries@iceelectronics.net](mailto:enquiries@iceelectronics.net)

| [www.iceelectronics.net](http://www.iceelectronics.net)



## HARDWARE DESIGN

We offer a wide range of hardware design capabilities including circuit simulation, schematic design/capture and PCB layout. These complement sensor electronics and embedded systems. We are constantly working to ensure that we are using the very best CAD tools for the job and that we are up to date with the latest component data and practices.

## SYSTEM DESIGN

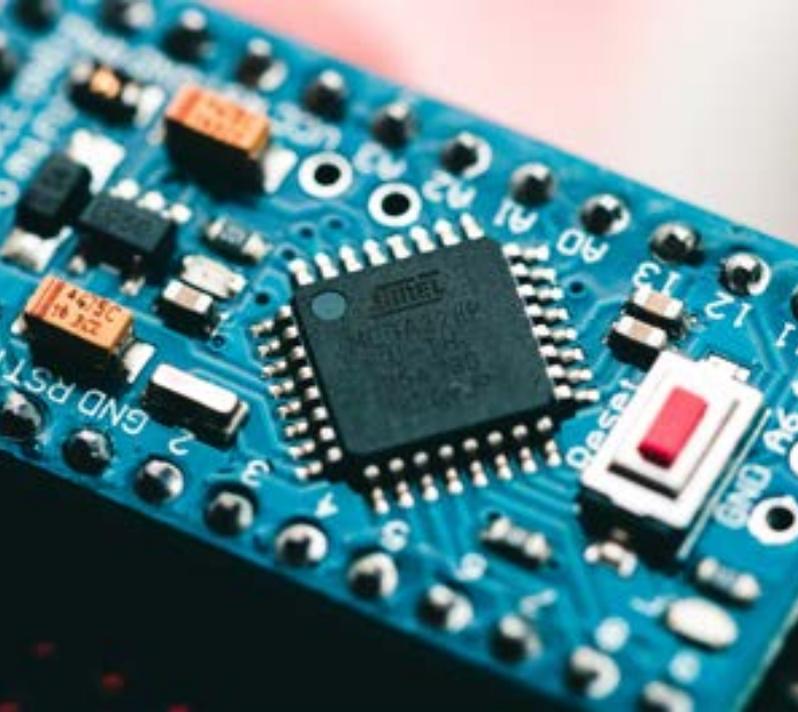
We are skilled at each end of the spectrum, from simple sensor amplifiers to distributed sensor networks, or complex data logging systems. Our experience and knowledge ensures due diligence is taken to mitigate risk and shorten development times. We have a development-driven approach and encourage customer involvement to improve communications and catch issues early on in the process.



## PROJECT MANAGEMENT

We live and breathe electronic design and product delivery. We have a deep understanding of the design process, and provide effective risk analysis that ensures we avoid the pitfalls of any design project. We have a proven record of delivery and understand the importance of reliable products delivered to you well within your deadlines.





## ANALOGUE CIRCUIT DESIGN

We're used to working with signals from the real world and offer our experience in analogue circuit design to get the best out of your sensor.

At I.C.E. we understand this and have the ability to design analogue circuitry to support both the measurement and output to ensure the best performance in your design.

## SOFTWARE DESIGN

We provide a range of software services to complement our embedded systems. This includes application-tailored software, control and displays, data capture, and custom analysis. Many of our designs fit into the IoT gathering and we can offer first-rate Cloud-based data platforms.



## EMBEDDED FIRMWARE DESIGN

At ICE Electronics a core expertise is embedded firmware design. Embedded processors often form the fulcrum of an embedded system. Their programming ultimately defines the products' behaviour and performance. From Real Time Operating Systems (RTOS) to Field Programmable Gate Arrays (FPGA) we have the ability to create the firmware that will be used most effectively in your design.





**WORLD LEADING SENSOR ELECTRONICS**  
**TAKING YOU FROM REALITY TO THE CLOUD**



## MANUFACTURING

I. C. E. has a great deal of experience and a portfolio of trusted Contract Engineering Manufacturers (CEM) s. This allows us to provide a one-stop-shop and call-off service to create a cost effective, reliable, hassle free supply chain for you and your product(s).

Our experience in manufacturing means that we understand the importance of mechanical integrity, thermal performance, reliability and repeatability. We will ensure that your product fits the target manufacturing process reducing production cost and lead times.

## PORTFOLIO

Our portfolio of CEMs provides I.C.E with a wide range of mechanical and delivery lead time capabilities.

We test all products shipped from I. C. E. and provide traceability with individual product test reports as standard.

We want to become a valuable, reliable supply chain partner to support your product throughout its life cycle.