

MIXED SIGNAL
SYSTEMS



Mixed Signal Systems Limited in Brief

Mixed Signal Systems Limited provides Product Development and Consultancy services to a global client base in the Technology, Electronics and Semiconductor industries.

Our client base includes a number of the world's leading technology companies as well as many of the world's most innovative hardware start-ups.

Our Goal

To be a trusted partner to our clients while working together on market-leading products.

Location

Edinburgh, Scotland

Year Founded

2012

Managing Director

Kieran O'Leary



How We Can Help – Our Value Proposition

We understand that selecting an external development partner is a significant commitment for any company. Our goal is to be a trusted partner in technical matters for our clients.

E⁴ – Our value proposition in a nutshell.

Expertise

We use our expertise in Electronics and Embedded Systems to minimise our clients' product development risk and maximise ROI.

Experience

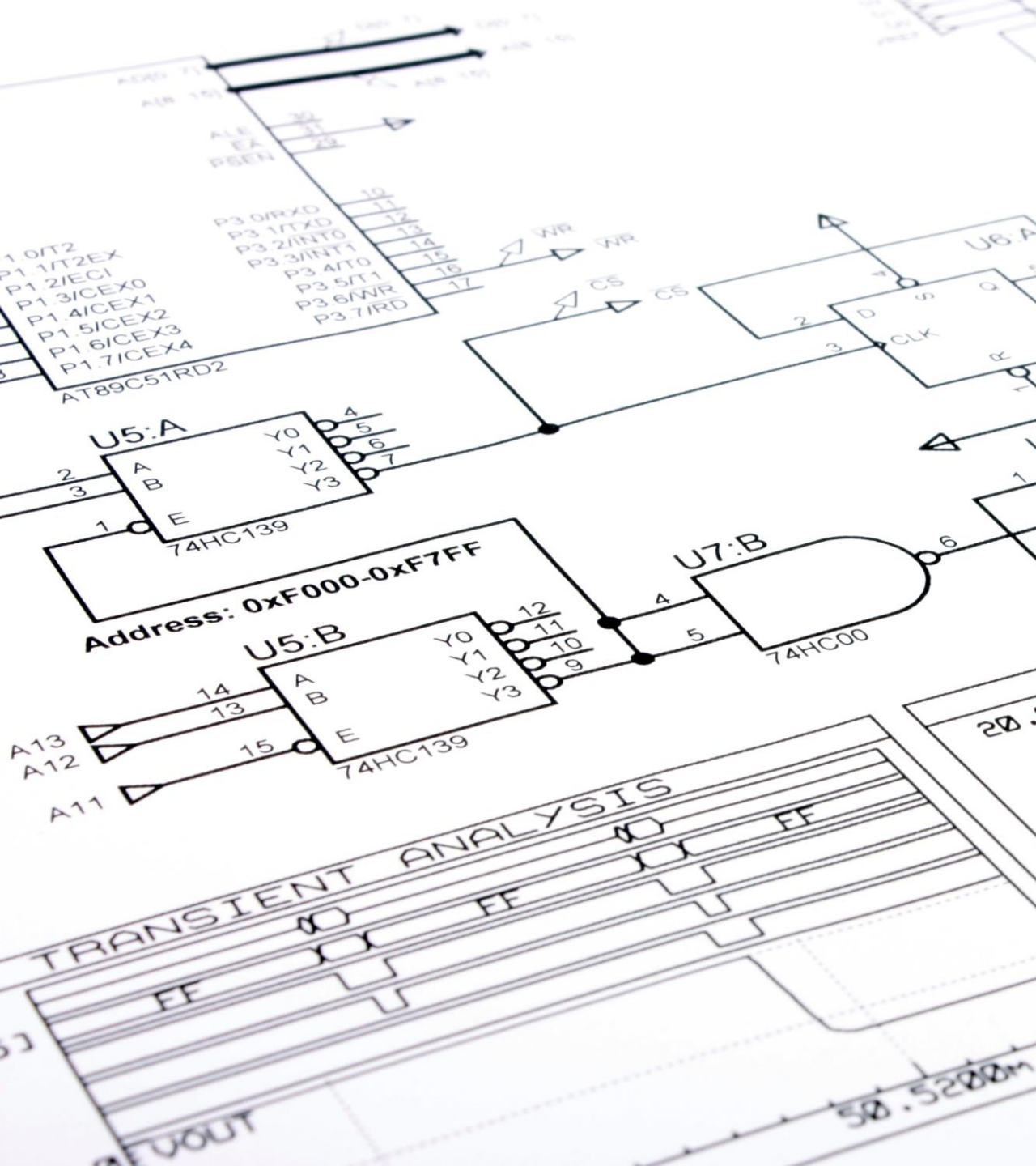
Our clients can be confident that we have done this many times and we understand what is required to bring a product to market.

Eco-System

Sometimes who you know is as important as what you know. Over time, we have built up an extensive network of industry partners.

Equipment

We have invested in the specialist equipment required for hardware development and debug so that our clients don't have to.



Our Services in Brief

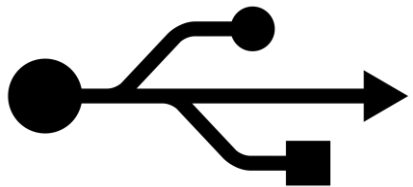
We provide a range of Product Development and Consultancy services to our clients. We are able to deliver complete turn-key solutions or fulfil a specific role at any stage in the product development cycle.

Product Development Services

Electronic Hardware Design · PCB Design · FPGA Design · Firmware Development · DSP Algorithm Development · Smartphone App Development · Enclosure Design · EMC Compliance Testing · Production Test Development · Production Management

Consultancy Services

Market Analysis · Competitive Analysis · New Product Development (NPD) · Product Architecture Definition · Requirements Capture · Design Evaluation · Design Reviews · Design Debugging · EMC and Signal Integrity · Training



arm



Our Sweet Spot – Mixed-Signal Products

A mixed-signal system contains both analog and digital elements. Many products are mixed-signal in nature. For example, a temperature sensor (analog) with a USB interface (digital) is a mixed-signal system.

Our core strength lies in our ability to design high-performance, mixed-signal products while balancing market-driven constraints such as size, cost and battery life.

This core strength allows us to create products for a wide variety of markets and applications.

Notable Market Segments

Internet of Things (IoT) · Wearables · Consumer Electronics · Audio Electronics · Wired and Wireless Communications · Indoor Positioning · Data Acquisition and Conversion · Smart Cities · Test and Measurement · Industrial Systems



Start-Ups

Many of our clients are early stage, high growth technology start-ups.

We understand that start-ups need to carefully utilise their limited time and capital.

By entrusting us with critical product development tasks, start-ups can confidently outsource activities that do not fall within the core competencies of the founding team.

Our start-up clients benefit from our domain expertise, years of experience and access to specialist lab equipment. Crucially, they avoid the need to use their limited resources to maintain those competitive advantages in-house.

Working together, we minimise technical risk and maximise the opportunity for commercial success.



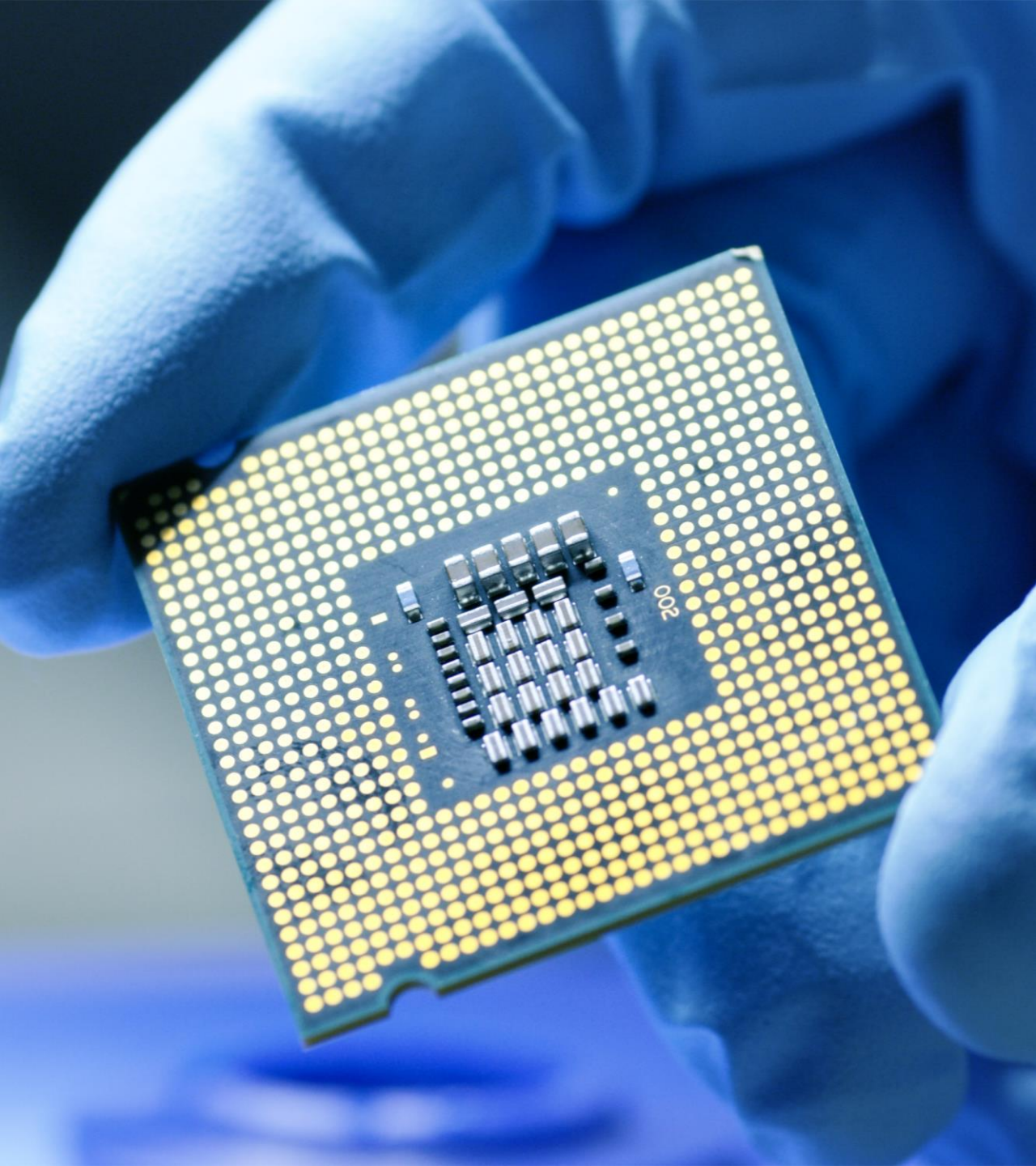
Small and Medium Enterprises (SMEs)

Our established SME clients know their businesses much better than we ever could.

For our SME clients, we excel in three areas - addressing specific resource and knowledge gaps, helping them integrate next generation technologies into existing product lines and resolving specific product design issues such as EMC compliance violations.

Established SMEs tend to have well-defined development processes and supply chains in place. We are flexible enough to integrate seamlessly into existing design flows while maintaining our high standards of quality and design excellence.

For clients seeking a turn-key solution, we can handle all aspects of product development from prototyping to production.



Large Enterprises

We are proud to count several of the world's leading technology companies among our clients.

The services that we offer to our enterprise clients are varied, and very much client-specific, but include product development, technical consultancy and business consultancy activities related to our core competencies in the field of electronics.

For clients that produce ASICs and SoCs, we offer a range of New Product Development (NPD) services that extend well beyond IC design.

Notable ASIC and SoC NPD Services

Requirements Capture · Competitive Analysis ·
Design Services · Post-Silicon Design Evaluation ·
Evaluation Board and Development Kit Design ·
Documentation · Reference Design Development



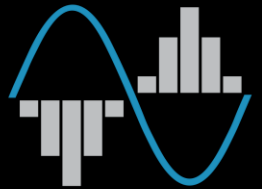
Testimonials

“We have been working with Mixed-Signal Systems as we develop and build our Pedestrian Crossing Controller. They have provided excellent attention to detail, provide the time to explain the options and exceeded expectation in the delivery of a successful product, highly recommend for any type of hardware design and development.”

Allan Hutcheon – Chief Operating Officer, Neatebox Limited

“Kieran at MSS was brilliant when we designed our prototype wearable motion sensor. He was very open and accessible at all times. During discussions about requirements he helped us to understand the trade-offs, asked very sensible questions, challenging us where required and often suggesting better alternatives to our original requests. His expertise was clear to see, particularly in the RF and Bluetooth space. Kieran took full ownership of implementation, prototype manufacturing and assembly and when it returned the board worked first time which was a great outcome for us.”

Ross Arnott – Chief Product Officer, Asensei



MIXED SIGNAL
S Y S T E M S



Mixed Signal Systems Limited

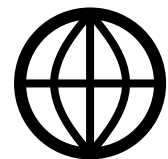
4th Floor,
115 George Street,
Edinburgh, EH2 4JN,
United Kingdom.



+44 (0) 783 1817 119



enquiries@mixedsignalsystems.com



www.mixedsignalsystems.com