



*Creative Technology*

# Technical Capabilities Overview

## Mechanical/Product Design

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### Services and Processes

- Concept visualisation using sketching and model making
- Product Styling and Rendering
- 3D Modelling
- Advanced surfacing
- Rapid prototyping using SLA, SLS, Silicone Tooling and Vacuum Casting
- Vacuum Forming
- Injection moulding
- Blow moulding

### Design Tools

Mechanical and Industrial Design using:

- SolidWorks
- AutoCAD
- SolidWorks Simulation - FEA

## Graphic Design and Visualisation

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- Rapid concept realisation in Adobe CS4
- Storyboarding and User Interface design for PC and hand-held applications
- Product Quick-Start guides and User manuals
- Labelling and Packaging design

## Electronics

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### Processors

Embedded system design using 8, 16 & 32 bit microprocessors including:

- Microchip PIC 16F, 18F, 12C, 16C, 30F and dsPIC series.
- Renesas H8 - /3002 /3006 /3337 /2132 /3068, 6303, 37702, 50747, 37450, 2633, M30302.
- ARM - NXP LH75401, LPC2129, LPC2138, LPC2378 and LPC2478.
- Atmel AVR ATMEGA128, ATMEGA8.
- ST uPSD3234, STM8.
- Wide range of legacy microprocessors including 8051, Z80, HC08 etc.

## Communications

System design and protocol development using:

- Wi-Fi
- RS232/485/422
- CAN bus
- USB host and device
- SPI/I<sup>2</sup>C
- NMEA2000
- Bluetooth
- GSM and PSTN modems
- Low power ISM band RF communications including Zigbee
- RFID

## Sensors

Electronics interfacing and measurement techniques incorporating a variety of sensors including:

- Humidity
- Temperature
- Speed
- Depth
- Pressure
- Wind
- Compass
- GPS

## Design Tools

Schematic capture & PCB layout using:

- Pulsonix
- Cadstar
- Altium Designer (Protel)
- Vutrax

PC software development using:

- Microsoft Visual Studio
- C++, C#, C, VB
- LabView

Embedded Firmware development using:

- A wide range of C Compilers including..
  - Raisonance
  - Introl
  - Cosmic
  - Source Boost
  - Mikroe dsPIC
- Microchip MPASM
- Rowley Crossworks for ARM
- IAR Workbench
- CodeVision
- Hitachi Workbench

- AVR Studio
- WinAVR

In-circuit emulation and protocol analysis using:

- Microchip MPLAB ICD2
- Network analysis using Wireshark
- LeCroy USB protocol analyser
- Renesas E8a
- ST-Link
- USB/CAN interface
- JTAG

## EMC Testing

In-house pre-compliance testing, including:

- Radiated emissions
- Radiated immunity
- Fast transients
- Conducted emissions

All tradenames and trademarks acknowledged.



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