



Creative Technology

Mechanical/Product Design

Services and Processes

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

Design Tools

Mechanical Design and Visualisation using:

- SolidWorks
- Catia V5
- Adobe CS3
- AutoCAD
- Pro-E
- Ideas
- SolidWorks Simulation - FEA

Electronics

Processors

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

- Microchip PIC 16F, 18F, 12C, 16C, 30F and dsPIC series.
- Intel 80C31/32/51/52, 80C196, Philips 89C660, Maxim/Dallas 80C320.
- Renesas H8 - /3002 /3006 /3337 /2132 /3068, 6303, 37702, 50747, 37450, 2633.
- ARM - NXP LH75401, LPC2129, LPC2138, LPC2378 and LPC2478.
- Atmel AVR ATMEGA128, ATMEGA8.
- ST uPSD3234.
- Zilog Z80, National Semiconductor NSC800.
- MOS 65C02.
- Freescale M68HC08JB8 (HC08).
- Cypress CY7C63413 for Universal Serial Bus (USB).

Communications

System design and protocol development using:

- Wi-Fi
- RS232
- RS485/422
- CAN bus
- USB
- SPI/I²C
- NMEA2000
- Bluetooth
- GSM and PSTN modems
- Zigbee

Sensors

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

- Speed
- Depth
- Pressure
- Wind
- Compass
- GPS

Design Tools

Schematic capture & PCB layout using:

- Pulsonix
- OrCad
- Cadstar
- Altium Designer (Protel)
- PADS P600S/PowerPCB

- Vutrax

PC software development using:

- Microsoft 8086 assembler
- Microsoft/Borland C++
- Borland Turbo C
- Microsoft Visual Basic
- Microsoft Source Safe
- LabView

Embedded Firmware development using:

- Ashling A51 Assembler
- Keil C Compiler
- Rowley Crossworks for ARM
- IAR Workbench
- CodeVision
- Hitachi Workbench
- Microchip MPASM
- Cyasm V2.0 (Cypress)
- ST PSDsoft Express
- Introl C Compiler
- Cosmic C Compiler
- Source Boost C Compiler
- Mikroe dsPIC C Compiler
- AVR Studio
- WinAVR

In-circuit emulation and protocol analysis using:

- Microchip MPLAB ICD2
- Nohau EMUL51 emulator
- LeCroy USB protocol analyser



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