

## Custom Electronics : Company Profile



- Pylon Remote Monitoring and Control
- SNMP Equipment Management
- ENG Control Systems
- SNG Control Systems
- Video Surveillance Systems
- Airbourne Tracking Systems



- Process Control
- Plant Diagnostics
- Telemetry / Telecontrol
- Manufacturing Cell Control
- Integrated Plant Management
- SCADA



- Real - Time
- Object Oriented Design
- Distributed
- Cross Platform
- Embedded
- Low Level



- Advanced Planning and Scheduling
- Capacity Planning
- Production Scheduling

### Company Information

The business was founded in 1977 by Roger Banks as a broad-based design engineering team specialising in high technology software and hardware solutions for industry. Focusing on the application of microprocessor technology to real-world industrial requirements, Custom Electronics rapidly gained a reputation for providing fast, effective and versatile solutions by working closely with its clients in a flexible manner. Many blue-chip companies active in the industrial control, computing and communications markets have chosen to work with Custom Electronics for both product design and system applications.

In the 1990's Custom Electronics has a wealth of experience to offer in all areas of computer, control and communications applications and can provide cost effective solutions at any level from design consultancy through to complete turnkey systems. We hope this brief information will give you an insight into our capabilities and look forward to the possibility of working with you.

### Market Areas

- Broadcast/Communications
- Power Generation
- Automotive
- Heat Treatment
- Chemical
- Military
- Water & Waste
- Metals Processing

### Specialisation

- Software Engineering
- Networks (LAN & WAN)
- Process Control
- Plant Diagnostics
- Telemetry/Telecontrol
- Manufacturing Cell Control
- Integrated Plant Management
- SCADA (Supervisory Control & Data Acquisition)

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### Microprocessor System Design

We have over 20 years of design experience in microprocessor hardware and software systems and have designed systems employing most popular devices from either chip level or board level upwards. We have specialist knowledge of the fault tolerant requirements of industrial systems and have an extensive design library of hardware and software for control applications and communication protocols.

### Communications

Reliable intercommunication of intelligent systems is a specialist area in which we excel. Having design and operation experience of real-world communication systems for local and wide area networks allows us to make the optimum choices on an application specific basis. RS232/422/485, Radio, Modems, TCP/IP, Novell, Netbios in single or dual-redundant configurations are all available.

### Software Design and Development

We provide a high quality service to meet software requirements in a wide variety of forms ranging from the application of standard products through to complete bespoke developments. A host of previously developed modules is available to draw on and most popular languages have been used from assembler through C/C++ with experience of a wide range of development and operating systems including modern GUI and cross-platform techniques.

Experience is a key part in the successful control of software design and development projects, without which even the 'quick and dirty' jobs can become a nightmare of cost and timescale overruns. Having over 17 years of experience in this area helps Custom Electronics ensure that 'workable' solutions are provided on time and within budget.

### SCADA Systems

Custom Electronics has specialist design-level knowledge of several Supervisory Control and Data Acquisition software systems and can offer many services associated with this important area of industrial control applications. These can range from simple configuration and testing

services, product selection consultancy, provision of I/O drivers, toolkit customisation, control strategy development, network/MIS integration and complete SCADA package development for OEM applications.

### System Engineering and Services

Full turnkey system engineering is available for projects including preparation of detailed tenders, functional, design and test specifications, procurement and production, works testing, training, documentation, installation and commissioning together with full warranty and maintenance support.

### Management Information Systems

The acquisition, analysis and control of process/shop-floor manufacturing data is key to the effective management and control of many businesses. Custom Electronics have many years of experience in the successful implementation of systems in this area, ranging from simple display and reporting tools right through to complete Integrated Plant Management schemes for whole factories.

### Broadcast Remote Control

This is a specialist area for the company with hardware and software products available with which to implement 'state of the art' computerised control schemes for the broadcast communications and control industry. A range of configurable outstations and communication systems are available together with sophisticated PC control software allowing full graphic user interfaces to be customised for particular applications. The software includes full touchscreen facilities, automatic control and signal searching, transmit site databases together with user configurable sound 'earcons' and incoming video signal monitoring chroma-key mixed onto the control screen.

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#### For Further Information:

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