

“Your partner
in product
development
from concept
to completion”

- Medical Devices
- Telecommunication Systems
- Automated Test Systems
- Control Systems
- Embedded System Development

bcsinnovations





BCS was founded in a Sydney garage more than a decade ago with the conviction that *"It was not good enough to only have innovative ideas, we also needed to turn those ideas into products with commercial value"*. BCS is now a multi-million dollar organisation that is recognised as the leader in the provision of innovative product design and development.



introducing bcs innovations

BCS Innovations is an Australian owned company that specialises in the development and service of a range of products for a world-wide market.

David Bull founded BCS in a Sydney garage more than a decade ago. With the conviction that "It was not good enough to only have innovative ideas, we also needed to turn those ideas into products with commercial value" BCS is now a multi-million dollar organisation that is recognised as the leader in the provision of innovative product design and development in the region. From humble beginnings, BCS has experienced substantial growth and now includes clients in the Middle East, USA, Canada, UK, South East Asia and New Zealand.

The core values of BCS are customer focus, process and innovation, supported by strong project management. The 30 plus team comprises some of the leading minds in engineering, with specialisations across a range of engineering disciplines including digital voice compression systems, design of complex analog circuitry and software development, mechatronic engineering, microcontrollers, firmware development for embedded systems, low cost and highly complex programmable logic design, electronic measurement and detection, RFID device programming and biomedical engineering.

BCS provides expertise across all phases of product development, including:

- Design & Development
- Prototyping
- Short-run Manufacture
- International Field Service

This is why BCS is your partner in product development from concept to completion.

our primary areas of expertise

- Development and Servicing of Medical Devices
- Development and Servicing of Telecommunication Systems
- Development and Servicing of Automated Test Systems
- Development and Servicing of Real-time Control Systems
- Embedded System Development (Software & Hardware)
- Design for Electromagnetic Compatibility (EMC)
- Design for Reduction of Hazardous Substances (RoHS)
- Design for Manufacture (DFM) and Manufacturing Support
- Design Review
- Expert Opinion Services
- Technical Feasibility Studies



our awards

Product: BetaChek G5 Blood Glucose Meter

The Australian Design Award 2003 and The Power House Museum Selection Award

David Bull, CEO of BCS is shown with the coveted Australian Design Award of Year for the development of the electronics and software of the BetaChek G5 Blood Glucose Meter. The Australian Design Award Committee stated that "the streamlined form and brilliant software-electronics capability provide the world's fastest and most accurate diabetes test".

Product: Total Recall Voice Logger

Category Winner: Best New Product in the New York Internet Telecom 2000 Show

BCS designed the voice logging system (Total Recall) that is sold throughout the world into the financial, security and banking markets. Total Recall won the "Communications Solutions Magazine" product of the year award. More than 1000 of these voice loggers have been sold world wide.



medical devices

The TruScan is a portable system used to directly identify cancer or pre-cancerous cells in cervical tissue. TruScan detects the presence of cancer and pre-cancer by measuring the tissues response to optical and electrical stimulation. BCS was involved in creating a DSP bio-sensor to detect pre-cancer in the cervix. This device provides a beneficial alternative to the traditional Pap smear diagnostic method.



The Nanosonics Ultrasound Probe Disinfecter was custom designed for the disinfection of ultrasound transducers. This device is a closed unit which completes disinfection within 5 minutes and creates only water and oxygen as by-products making it an environmentally friendly product. BCS designed the embedded firmware and support software for this device to enable full compliance with IEC62304 which is one of the most stringent software standards available.



The Betachek G5 is a pocket sized diabetes monitoring system that uses smart card technology. BCS's involvement included the electronic design, PC software, device firmware, optics design, algorithm development, liaison with the industrial engineer and management of the final device manufacture. The Betachek G5 took under one year from concept to product release.

This streamline, quick and accurate system makes this system an award winning design. BCS was awarded the Australian Design Award of the Year and Powerhouse Museum Selection Award.





quality

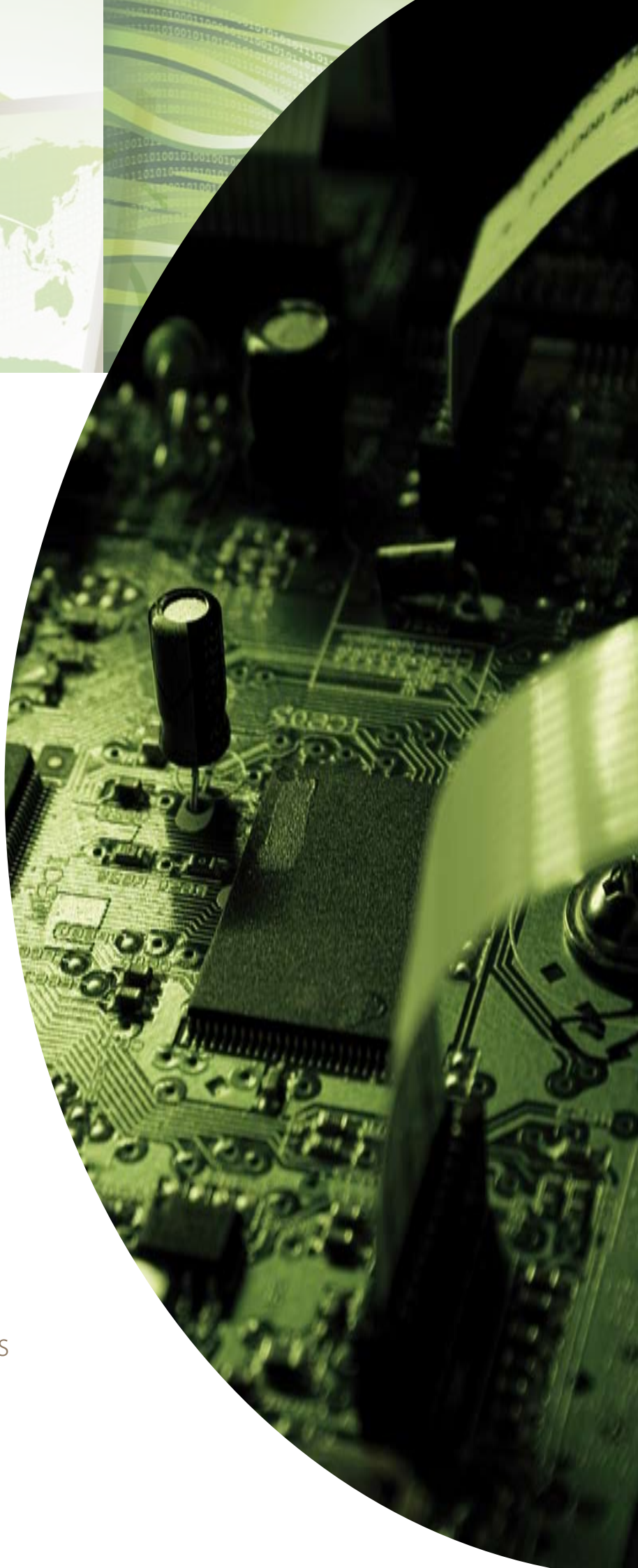
BCS has met the requirements for AS/NZS ISO9001:2000 for Quality Management Systems with SAI Global Certification Services. This registration, QEC23112, covers the Quality Management System for consulting, design, project management, manufacture and rework services for customised electronic devices related to industrial, medical, defence and commercial applications.

With an increasing number of medical projects BCS is now undertaking the necessary benchmarks towards attaining ISO13485 certification in 2009.



ISO 9001 Lic23112 SAI Global

As a leader in the development of bio-tech and medical devices BCS Innovations has a keen interest in fostering innovation.





The core values of BCS are customer focus, process and innovation, supported by strong project management. The 30 plus team comprises some of the leading minds in product engineering specialising across a range of disciplines.



telecommunications

The Total Recall Voice logger is a compact multi-channel logging recorder which provides simultaneous recording from 4-16 channels and stores up to thousands hours of conversations. It is sold throughout the world into the financial, security and banking markets. Total Recall won the "Communications Solutions Magazine" product of the year award.

The X-Stream Pager unit gives the ability of users to message large populations rapidly and simultaneously during hazards and emergencies. BCS implemented the final design for manufacturing as well as designed, developed and manufactured the InfoStream X-Stream Pager Programming Unit. The programming unit enables dealers and service technicians to provide field software upgrades. The unit is manufactured in the BCS facilities and distributed to a world market as an accessory to the InfoStream X-Stream Pager Unit.



consumer products

Infrared-Tilt Sensing PC Joystick System The VIR GeoLock Pro is a stylish infra-red tilt sensing joystick. BCS was involved with the initial research and development of the pre-production prototypes, design of the electronics in the docking station and hand-controller as well as the Printed Circuit Boards for the production units. Over 85,000 joysticks were manufactured.



The SPENDTRACKER® Advanced is a credit card sized electronic device which allows consumers to track expenses across 10 budget categories.



scientific instrumentation

The MF10 Separator is the first bench-top instrument to use polycrylamide membrane separation to separate proteins by charge and size simultaneously. This technology allows fraction preparation, de-salting and depletion of abundant proteins all in one unit.



industrial control

Tyco - Goyen Environmental Controller. The Goyen Precision Total Dust Collector is an advanced filter cleaning control system for reverse pulse jet dust collectors. The unique modular format allows easy configuration with a selection of control interfaces and signal output options.





our team

The composition of the BCS Team is adaptable to the needs of the particular project stage and is typically:

- Software Engineers (30%)
- Electronic Engineers (25%)
- Bio-Medical Engineers (10%)
- Mechatronic Engineers (10%)
- Regulatory / Quality Engineers (5%)
- Others Industrial Design, Mechanical etc. (20%)

The diversity of projects at one time may cover any of the follow areas :

- Medical Devices
- Scientific Instruments
- Telecommunications
- Industrial Control
- Consumer Products
- Test systems

In addition to the internal pool of talent BCS Innovations also partners with a strong network of external consultants, with many leaders in their particular field. The BCS Team has developed a number of medical and non-medical products with several registered patents that are listed on our website www.bcsinnovations.com.au

clients

- Advanced Medical Institute
- AtCor Medical
- Austdac
- National Diagnostic Products
- Cochlear
- CSIRO
- ImpediMed
- Lighthouse Aesthetics
- Medtronic
- Nanosonics
- NuSep
- Polartechnics
- RTA
- Tyco
- Ventracor
- ZODIAC

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