



# INNOVATIVE ELECTRONICS SOLUTIONS



“You imagine it. We’ll create controls for it!”



# OVERVIEW

## Keeping you ahead of the competition since 1985

**PNE Electronics** is a division of Sydney-based electronics company, Inventis Technology Pty Ltd. PNE's primary line of business is the design and manufacture of embedded electronic controls, as well as completed niche-market electronics products.

PNE established its reputation as an innovator in 1985 with the invention of the cut-out switch for the domestic steam iron. From that simple safety product - one that quickly become endemic in consumer appliances around the world - we've grown to become a leading Australian electronics designer and manufacturer, specialising in control solutions for a wide variety of products, applications and markets.

Our capabilities cover a broad range of product types, ranging from embedded controls for consumer durables, to sophisticated control solutions for commercial, industrial, healthcare and banking equipment.

Comprised of more than 50 employees, PNE offers both contracted services to address a specific aspect of a project, as well as full turn key services to take you from concept to finished goods delivered into your warehouse. Capabilities include:

- development of functional and technical specifications
- PCB and embedded software development
- electronics manufacturing (local and offshore)
- finished product design, assembly and packaging

What sets our ISO9001:2008 Quality Accredited operations apart is that not only are we accredited for manufacturing and support processes, we're also accredited for design processes - something that less than 5% of Quality Accredited companies in Australia can claim. To ensure that quality designs translate into equally high quality manufactured goods, we even maintain our own Quality Assurance personnel in our offshore contracted manufacturing facilities to ensure consistent outcomes, regardless of where your products are made.

That integrated manufacturing and quality assurance capability, coupled with our proven innovative design abilities, is helping not only small, medium and large Australian companies compete in competitive local and export markets, but it's even helping billion-dollar global market leaders create best-sellers for local and regional markets.

So whether you're an inventor looking for an Australian partner to help your vision become a reality, or a local or global manufacturer looking for innovations to help make your great idea really stand out from the crowd, we deliver the skills, experience, flexibility and support framework you need for your products to succeed.

***PNE - You imagine it. We'll create controls for it!***

### Core Markets

<b>Consumer Electronics</b>	Whitegoods, consumer durables
<b>HVAC (Heating, Ventilation &amp; Cooling)</b>	EACs, RCAs, Gas Heating
<b>Banking &amp; Vending</b>	Money Handling, Food Vending
<b>Fluid Pumping &amp; Treatment</b>	Precision pumps & treatment systems
<b>'Green' Products</b>	Energy Saving, Water saving

### WHY PNE?

We've created innovative control systems, used by millions of people in Australia and overseas in a diverse range of domestic, commercial, industrial, banking, and healthcare applications.

We deliver the innovations that make others' products more fully featured, more reliable, cheaper and safer.



## MAKING GOOD PRODUCTS EVEN BETTER

From controls for gas room heaters and outdoor spas, to motor control boards and touchscreen control interfaces for zoned air-conditioning systems, to multi-device control systems for hot food vending and money dispensing machines, to sophisticated control, management and data-logging systems for 'smart safes' and precision environmental control equipment, our capabilities and experience is extensive, as are the range of products we've helped create.

So diverse and numerous are the solutions we've created, you've probably encountered one or more of our innovations without realising it.

## EXAMPLES OF OUR WORK

From the invention of the safety cut-out system for the domestic steam iron - a device now endemic in steam irons around the world - to the first Australian-made toaster with a safety cut-out system to protect inquisitive toast makers from electrocution, to the first Australian-designed and manufactured electric lawn mower, to the world's first solar pool heating system, we've been involved in a number of Australian and world firsts that have helped change market expectations.

We've created innovations for a wide range of consumer products, such as the controls (including wireless remote, gas burner management and safety systems) for a unique Australian-made flueless gas room heater that sniffed the air to check for oxygen and oxides of nitrogen ('nitrox') levels, and that would turn the heater off if oxygen levels became too low or nitrox levels too high.

We've created innovations for banking and vending systems, such as the controls (including user touchscreen interfaces and transactional systems) for Australia's most advanced range of 'smart safes' installed in many petrol stations and retail outlets around Australia. These not only count the money deposited into them, but 'electronically transfer' those funds into the bank. We also created the controls for the first self-serve 'coin-for-note' change machines that provide retailers in busy shopping centres with a automated quick change facilities.

We've created innovations for 'green systems' being installed in new homes, such as a hot water recovery system that collects the cold water coming from hot water taps when they're first turned on, then feeds the stored cold water back into the hot water flow, without affecting the selected water temperature, thereby ensuring those first few gallons of cold water aren't wasted.

We've even created innovations in precision environmental control systems, including the control and management electronics for one of Asia-Pacific's best-selling data centre HVAC control and management solutions, that is helping cool server farms in tens of thousands of data and call centres around the Pacific Rim and in India.



***“We’re a familiar face, even if you don’t know our name!”***

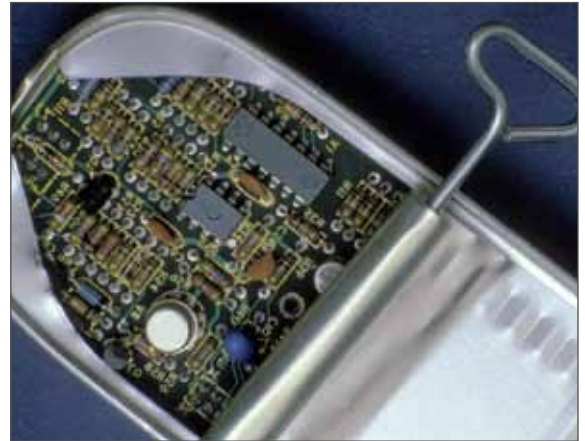
# PARTNER SERVICES

## TURNKEY ELECTRONICS DESIGN & MANUFACTURING

When you need an experienced partner to design, manufacture and manage supply of your electronics sub-systems or finished products, then turn to the company that's been providing turnkey solutions to small, medium and large customers for more than two decades.

### Services include:

- Creating a functional specification
- Creating circuit design/s
- Designing control interface/s
- Developing housings (in-house or via contract industrial designer)
- Developing packaging
- Manufacturing, testing & packing product

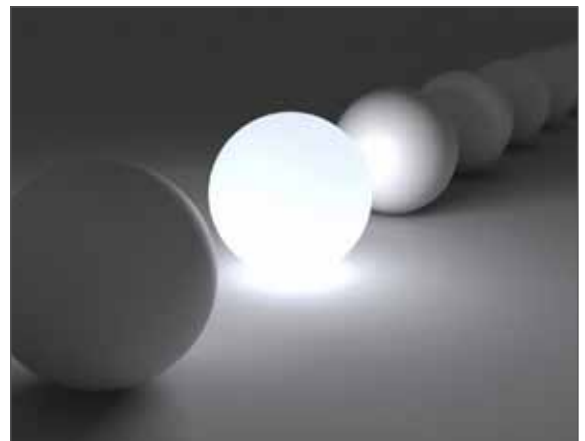


## BRINGING YOUR IDEAS TO LIFE

Have an idea for an electronics product, but don't have the engineering, manufacturing, distribution or marketing skills to get it to market? We've helped innovative Australians take their ideas to market after working with them to develop their concepts, assessing market potential, then creating finished products that sell. Discover how we can might be able to bring your great idea to life!

### Services include:

- Assessing markets & sales potential
- Developing concept/technology licencing agreements
- Prototyping & product trials
- Manufacturing, testing & packaging
- Sales & marketing of finished product



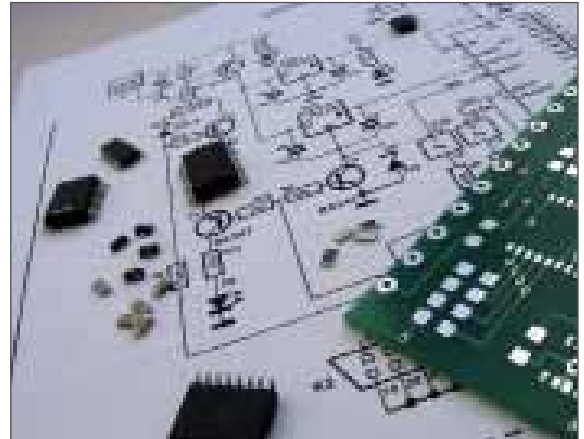
# CONTRACT SERVICES

## CONTRACT ELECTRONICS DESIGN

Need a local electronics engineering firm to create a world-class, effective, fit-for-purpose design? Since 1985, PNE has delivering solutions for a wide range of customers since. Today, our innovations continue to help create products that offer more features, greater reliability, enhanced safety and better value for money; and that help our customers keep ahead of the competition.

**Services include:**

- Creating a functional specification
- Creating circuit design/s
- Designing control interface/s
- Prototyping
- Manufacturing introduction & support



## CONTRACT ELECTRONICS MANUFACTURING

Have a PCB or a complete product you want to have manufactured? Considering off-shoring production but don't know where to start? We've been handling the manufacture of PCBs and completed products since 1985, and have established, reliable manufacturing bases within Australia and China, as well as an ISO-accredited QA group covering both our Australian operations and our Chinese affiliates.

**Services include:**

- Prototyping & testing
- Contract manufacturing locally &/or offshore
- Assigned component inventory management
- Logistics management





## ABOUT INVENTIS TECHNOLOGY

Inventis Technology is a Sydney based electronic control systems designer and manufacturer. We've been creating and delivering innovative control, management and safety solutions to electronics OEMs, emergency services, police, defence and many enterprise and government customers for more than 20 years.

Our brands include SafeZone (driver & pedestrian advance warning systems), PNE (electronic control systems for OEMs), Impart (motor vehicle control systems), EAS (emergency alert siren beacon systems) and Opentec (rugged portable computers and computer-based solutions).

**Phone: (02) 9525 4177**

**Fax: (02) 9525 5583**

**Email: [sales@inventistechnology.com.au](mailto:sales@inventistechnology.com.au)**

**Web: [pne.com.au](http://pne.com.au)**

**PNE Electronics**

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Product specifications subject to change without notice

