



DISPLAY LEADERSHIP

Committed to Expanding Capabilities

Thomas Electronics: Leader in Display Systems

For over 53 years, Thomas products have been used with confidence around the world in a wide variety of specialized Defence, Aerospace and Commercial Electronics applications. From tailored display products, to high volume repair and through-life support services, Thomas' broad range of services and capabilities deliver outstanding performance, reliability and world-class innovation.

Since the conclusion of its CRT manufacture line in 1993, Thomas has established itself as one of Australia's most qualified and technically astute electronics SME's. Thomas has extended its range of services and capabilities to include ISO9001, CASA, CAAC, EASA and FAA certification and has come to offer customized electronics support to projects as varied as the Australian Light Armoured Vehicle CPT Sites (ASLAV), Vigilant Ground Based Air Defence System and the Collins Class Submarine Replacement Combat System (RCS). Adding to this list of credits, Thomas is also currently the designated support facility for cockpit display units used by the Australian and New Zealand Defence Forces, as well as over 25 international airlines.

Crucial to this success is Thomas' commitment to the cultivation of a dynamic body of staff that are at the forefront of engineering and technical innovation. Thomas has developed a broad scope of capabilities ranging from obsolescence management, to LCD repairs, to completing repairs, upgrades and interfacing procedures on older CRT unit technologies. R&D Manager Nelson Mino spoke of Thomas' current position in engineering and innovation: "It's the sheer range of capabilities that I am most proud of. It is so rare to be able to repair, design and overhaul traditional analog electronics in the same house as cutting edge technologies like FPGA, CPLD and μ controllers. And the best thing is that we are getting better at combining the two technologies. Our work at interfacing new and old technologies has really generated some great results. When it comes to our scope of operation, the sky really is the limit..."

Thomas Electronics maintains substantial in-house engineering and design capability including electronic design, graphics/video processor design, optronics, human factors engineering and reliability and safety engineering. Based in Australia, Thomas has a worldwide presence with representatives stationed in North and South America, Asia Pacific region, Japan, Europe and the Middle East.

Thomas is delighted to attend the Singapore Airshow as part of the Team Australia delegation, and looks forward to discussing how our defence and support capabilities can satisfy your avionic and electronic requirements.

Thomas Milestones: Toshiba Lifetime Buy Agreement

Thomas made its biggest ever commitment to the longevity of its CRT Repair business in December 2009, when it signed a Long-term Purchase Agreement with Toshiba Hokuto Electronics Corporation. In place until 2025, the agreement will see Toshiba continuing as Thomas' principal supplier of avionic CRTs.

The association between Thomas and Toshiba extends back over thirty six years, and is based on the close relationship between Bill Hutchinson, the present MD's father, and Mr Minoru Ueda who retired as the President of Toshiba in August 2009. During this time, Toshiba has come to represent one of Thomas' most trusted and valued business partners. Thomas is pleased to see this much valued relationship continuing into the future.



Toshiba Hokuto's Mr. Hatori and Mr. Bando celebrate signing of the Long-term Purchase Agreement with MD William Hutchinson and Thomas Senior Management.

Thomas Electronics: Committed to servicing the Avionics Industry

Report from the Managing Director, William Hutchinson.

The Singapore Airshow is an event to which I always look forward with great anticipation. While I enjoy the opportunity to meet with Asia's largest range of aerospace and defence players, I am most enthusiastic about the opportunity to showcase Thomas' avionics capabilities. The challenge of addressing obsolescence in the avionics display industry is a cause to which Thomas has been most dedicated for over 15 years, and remains today as the company's primary focus.



In 1993, I identified a niche in the avionics display industry to address issues of obsolescence and operational compatibility for defence and aerospace operators, for whom product life can span over 20 years. Since Thomas commenced work in the avionics display industry, the company has devised a range of innovative support solutions that have since been utilized by the B747-400, the Airbus A320 family, as well as various branches of the Australian and New Zealand Defence Forces. Our additional capabilities include the manufacture of support solutions such as Avionics Display Bench Testers, CRT Burn-In stations, and other solutions that interface analog and power electronics with advanced digital technologies.

Upcoming Events

Avionics Maintenance Conference (AMC) 2010

Thomas is excited to announce that it will be showcasing our latest products and services at the AMC Conference.

When: March 29 – April 1 2010

Where: Hyatt Regency, Phoenix, Arizona, USA.

Suite: 316

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Maintaining a commitment to quality, and to the expansion of all capability has been the agenda that continues to drive the company. Significant progress has been made towards attaining AS9100 (Aerospace Industry quality system standard), Thai DCA (Thai Dept. of Civil Aviation), Malaysian DCA (Malaysian Dept. of Civil Aviation), JCAB (Japanese Civil Aviation Bureau) and AMO (Authorised Maintenance Organisation status for the Royal Australian Air Force). Thomas' high level of accreditation is testament to the company's commitment to the delivery of products and services that is broad in scope and world-class in quality. In addition to offering unrivalled standards in engineering and quality assurance, Thomas is adding to its present range of capabilities by pursuing projects in new display technologies including OLED and Laser projection.

As Managing Director since 1993, I have made a steadfast commitment to the support of the avionics display industry. Avionics systems need through-life support, and are absolutely dependent on innovative solutions to overcome issues of obsolescence. We are dedicated to providing display system solutions that offer maximum cost-effectiveness and a standard of product that is world-class in quality, performance and innovation.

AS9100 Certification

Thomas is moving forward to achieving the major goal of attaining AS9100 Certification, with certification expected to occur in May 2010. AS9100 Certification is a standardized quality management system for the aerospace industry, and is increasingly becoming a necessary requirement for cooperation with companies working in both civil and military aviation, including major aerospace players such as Boeing, Raytheon and Lockheed Martin. The certification incorporates all ISO9001 standard requirements, with additional requirements relating to quality and safety that are specific avionic design and production services.

Quality and Safety Manager Martin Wlodarski is in charge of leading this worthwhile project, which he believes is a significant addition to the company's potential to capture new markets through a reputation for quality. "With the AS9100 certification, we make a public commitment to delivering products that are of the highest quality in the avionics industry. You can't beat that." Mr. Wlodarski attributes the swift progress made toward attaining AS9100 status as testament to the company culture of strict adherence to operating and safety procedures. "We are committed to expanding our capabilities, but above and beyond, designing and manufacturing products of the highest quality standards will always be our primary concern."

AUSA 2009

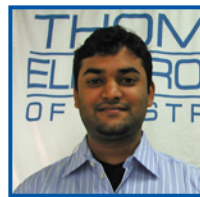
In October 2009, Managing Director William Hutchinson, R&D Manager Nelson Mino and North American Representative Jeff Boyle represented Thomas at the Association of the United States Army (AUSA) Annual Meeting and Exposition. Held in Washington D.C., the AUSA Annual Meeting is the largest firepower exposition and professional development forum for defense industry in North America, and is an international event that attracts over 30,000 attendees, including key Army and defense force decision-makers from around the world. Thomas attended the event as part of Team Australia, a delegation of Australian companies assisted financially and technically by AusTrade.

The Thomas exhibit generated much interest through a digital presentation that featured the company's high visual fidelity display solutions including the Crew Procedural Trainer for Australian Light Armoured

Vehicles (ASLAV CPT), and its ruggedized LCD display systems and control consoles. Customers and defense industry personnel were impressed by Thomas' capacity to develop and manufacture sophisticated defense solutions, such as ASLAV CPT sights, at significantly lower costs. Many potential customers also commented on the potential benefit of Australian in-country support offered by Thomas.

The exposition was a great opportunity for Thomas to gain further exposure in an international forum, and to make contact with both the US Army and other major suppliers of defense related products. The Annual Meeting also provided the occasion for Thomas to meet again with its contacts from a number of US Defence Primes including Raytheon, L3 Communications, BAE Systems and Honeywell. Managing Director William Hutchinson believes that Thomas gained great benefit from its involvement in AUSA, and looks forward to ongoing participation in both the AUSA Annual Meeting and Team Australia activities.

Meet the Team: 5 minutes with Julian Almeida, Certification Project Engineer



Julian Almeida, 25, has a B.Engineering (Aerospace Avionics) and is a Certified Associate in Project Management (CAPM). He has been a member of Thomas Engineering Team since February 2008.

Which project/s are you working on currently?

This year we aim to attain the following certifications: AS9100 (Aerospace Industry quality system standard), Thai DCA (Thai Dept. of Civil Aviation), Malaysian DCA (Malaysian Dept. of Civil Aviation), JCAB (Japanese Civil Aviation Bureau) and AMO (Authorised Maintenance Organisation) status for the Royal Australian Air Force. We are also looking to add to our CRT and LCD repair capability. You could say that I am pretty busy!

What is the best project you have worked on in your time at Thomas?

That would probably have to be working to attain approval for the repair of the High Voltage Power Supply designed for the FCD66 avionics display unit. The certification was an ambitious and challenging process of negotiating requirements between CASA and the FAA. It was my first project at Thomas and something like this has never been done before. It really threw me into the 'deep end' of the regulatory world and project management. But I learned a lot and we added a great deal to the company's knowledge, reputation and capability.

What do you enjoy most about your role at Thomas?

As far as SME's go, Thomas is up there amongst the most enterprising and innovative. As far as I know, no other company has so many CAA (Civil Aviation Authority) approvals or has a cross regulatory approval as we do for the FCD66 HVPS. Rob Riede (Mgr. of Product Development and Engineering) is very supportive of innovation and is committed to cultivating the highest level of technical competence amongst the staff. We work equally hard on maintaining our certifications and a high standard of quality, as well as working on expanding our capabilities, as you can see from my workload! I enjoy managing various certification projects for the different CAA's. I am developing my knowledge base of the regulations, gaining an immense understanding and appreciation of aviation safety, and I am getting the experience I need to meet my goal of attaining Project Management Professional (PMP) accreditation.

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