

Professional Engineering Design Services

Overview

Amatek provides a full range of design services that can take clients from concept to production. Our expert design and commercial team can assist clients turn their ideas into a reality.

Our Professional Services



Electronics Design

- Circuit design and schematic capture
- PCB design and layout
- PCB panel layout and optimisation for manufacturing



Project Management

- Product Specification development
- Technology and Innovation advice
- Component sourcing
- IP & Patent Protection advice



Software Development

- Embedded software utilising custom schedulers or Linux
- PC application software, desktop GUIs and databases
- Mobile device applications



Manufacturing

- BOM creation & component sourcing
- Inventory management
- Rapid prototyping
- Production of mechanical elements and housings



Industrial Design

- Design of mechanical elements
- Full product industrial design



Turnkey Services

- From concept to production
- Integrated, end-to-end services



Compliance Testing

- EMC, Safety and Medical compliance testing
- Drafting of detailed compliance plans
- Pre-compliance testing management
- Compliance management at fully certified test houses
- Production run yield testing



Off-the-shelf Electronics

- LIPD RF Transceiver Modules (433MHz, 915Mhz, 2.1GHz, LoRa)
- Digital Sensor Modules (Temperature, Pressure, Humidity)

Areas of expertise

- Biometric Access Control & Security
- Audio & Broadcast Systems
- Banking & Transactional Systems
- Consumer Electronics
- Electronic Metering
- Industrial Automation & Control
- Human-Machine Interfaces
- Medical & Biotech
- Motor Control
- Power Management
- Retail Systems
- RC & Autonomous Aerial Platforms (drones)
- Sports & Leisure
- Telephony & Telecommunications
- Test, Measurement & Instrumentation
- Transport & Automotive
- Vending Systems
- Wireless Control & Data Communications

Find Us

501 / 781 Pacific Highway
Chatswood NSW 2067 (Australia)

Contact Us

+61 2 9411 3618
www.amatek.com/contact.html

Recent Projects

You might not know Amatek Design, but increasingly, our clients are making headlines, both here and overseas, with the world firsts we've helped create.

The following is a selection of the exciting projects we continue to help bring to life.



Emotiv 'BrainWare'[®]

Emotiv's wireless 'Epoc+' and 'Insight' EEG headsets monitor cognitive health for a fraction of the cost of traditional EEG devices.

Having helped Emotiv deliver these ground-breaking products, we continue to work with them to develop new and exciting Mind-Machine products for emerging applications as diverse as gaming, entertainment and lifestyle enhancement.

Discover more at: www.emotiv.com



Oartec 'DX' Professional Rower Trainer

Australian World Champion rower Matt Roach wanted to realise his vision of taking on the global leader in indoor rowing training machines with a concept that 'changed the way people rowed'.

To achieve that vision, we engineered the DX's new LCD control interface, which features a larger GUI and animated graphics to help better engage users and provide tailored training experiences not available with competitive machines.

Discover more at: www.oartec.com



FOMOfx 'Virtual Jeff'[®]

We were thrilled to be invited to work with former Cold Chisel lead guitarist and producer, Peter Walker, and his business partner, Ian Moss, to create the world's first 'digital whammy bar'; a product that delivers Fender-style whammy effects to any guitar with a digital pickup.

Today we continue to work with this talented team to deliver innovative products to performers and audio engineers that will help position Australian ingenuity on global stages – literally!

Discover more at: www.fomofx.com



Nuheara 'IQbuds'[™]

In 2016 we helped Nuheara create the world's first wireless earbuds with 'smart' on-board audio processing capabilities that exceeded far larger 'wired' devices. So innovative is the product, with so many features packed into such a tiny wireless package, that well-known blog site 'Cult of Mac' recently proclaimed them as making "Apple AirPods Look Dumb".

It's collaborative projects such as this that highlight Australia's role as a leading developer of advanced electronic solutions.

Discover more at: www.nuheara.com

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