

Profile

Jason Cox

Senior MX / Highways / Civil Designer



Caddmandu Design & Drafting Pty Ltd

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About Us and Objectives

Caddmandu was established in 1995 with the view to provide quality MX and Design Solutions to the Civil Engineering Industry, throughout Australia and internationally.

Road and highway design forms the core of our business, ranging from access roads, minor roads and intersection up-grades through to major highway and interchange design. This is supplemented with expert MX training and customisations.

With over 23 years design and MX/ MOSS experience as a user, trainer and in technical support, Caddmandu has almost unparalleled knowledge in the civil road design field which has ultimately meant pioneering solutions for their clients.

Professional and dynamic, Caddmandu takes the lead role on the planning and design of road projects, interfacing directly with clients to achieve agreed objectives and deliver excellent project outcomes.

Whether it is project management, training, design or construction, Caddmandu can deliver integrated specialist and expert advice & services.

Caddmandu Services

- Specialist Road Design Services for both rural and urban projects:
 - Concept and route selection.
 - Final Design.
 - Staging works for construction.
 - Multi-lane road constructions.
 - Road rehabilitation.
 - Intersection improvements.
- MX Modelling for any civil engineering project, regardless of size and complexity.
- Professional advice for both designer and surveyors in the use of MX.
- Expert witness investigations and written reports.
- MX Developments and Customisations.
- Affordable and Customised MX Training for any level of user.
- Project Management.
- Design Review.
- Negotiation with public utility authorities, government authorities, private companies, property owners and others in regard to design activities.
- Liaison with surveyors to ensure that product delivery is fit for purpose.

Specialisations

- Expert user of Bentley MX software.
- Experienced user of AutoDesk's AutoCAD and Bentley's MicroStation Software.
- Major Infrastructure and minor works design.
- Traffic management design for construction.
- Customising MX to enhance productivity and efficiency.
- Tailored Bentley MX training specialist.
- High motivation and sound problem solving skills.
- Sound written and verbal communication skills.
- Attention to detail.
- Sound organisational skills.
- The ability to lead and mentor team members.
- Knowledge of Australian Standards related to road design.
- Excellent design skills with experience in transport design - both urban and highway.
- Associate Diploma in Civil Engineering.
- Quality assurance procedures and practices.

Contact Details

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A showcase of career highlights and successes

Brisbane Airport Link – 2008 to Present

MX Design Leader for Southern Connection in the traffic management and staging to ensure smooth construction paths & timetables could be met. Client: Thiess John Holland.

Kurnell Desalination Plant - 2009

MX Modelling of complex underground services to ensure clashes were avoided during the construction phase. Tight timetables were implemented as the modelling was being done as construction progressed. Client: Blue Water Joint Venture (John Holland).

Victoria Park Tunnel – 2008

Senior MX Designer for Victoria Park Tunnel Concept Design, connecting Auckland City to the Auckland Harbour Bridge, including the existing motorway widening. Client: Sinclair Knight Merz, New Zealand.

MX Update Training, MWH – 2008

MX 2004 to MX XM update training for all of MWH New Zealand MX Design Staff, including the integration of the new CAD Graphics platform implemented with the XM release. Client: MWH New Zealand.

West Gosford Interchange Upgrade – 2007 to 2008

Senior MX Designer for Concept Design on various Interchange options at Central Coast Highway / Manns Road / Brisbane Water Drive intersection upgrade at West Gosford. Client: Sinclair Knight Merz.

New Illawarra Road Intersection Upgrades and Road Rehabilitation – 2006 -2007

MX Designer for intersection upgrades along New Illawarra Road and for pavement rehabilitation from Heathcote Road to ANSTO Entry. Client: Roads and Traffic Authority, NSW – Asset & Maintenance Section.

Port Gateway – 2004 to 2007

Senior MX Designer for Concept Design Review and Final Design of 6km of Oxley Highway upgrade to 4 lane dual carriageway from Pacific Highway into Port Macquarie, NSW. Design included one interchange and three roundabouts in an environmentally sensitive area. Client: Roads & Traffic Authority, NSW.

Specialised MX Training - Sudan – 2005

A 5 week MX training program for the National Highways Department in Sudan training 12 Engineers, overcoming language and cultural differences. This position was advertised internationally. Client: InfraCAD Solutions, Dubai.

New England Highway Rehabilitation – 2004

Senior MX Designer for Final Design of 1.6km of New England Highway rehabilitation using MXRENEW and full design documentation. Client: Roads & Traffic Authority, NSW.

Lane Cove Tunnel, Survey - 2004 to 2005

Provided expert MX advice and procedures for the collation of survey data in MX format for issue to designers for the final design phase and provided setout data to survey teams for construction. Client: Surex Surveyors.

Lane Cove Tunnel, Traffic Management – 2004 to 2006

MX Designer providing Traffic Management Solutions for the construction of various aspects of the Lane Cove Tunnel, particularly at the interface with the Gore Hill Freeway. Client: Thiess John Holland.

MX Technical Engineer – 2000 to 2004

MX Support and Training Engineer, providing technical support, training and customisations for the Australasian region for users of all levels of the MX Software. Instrumental in assisting the RTA making a smooth transition from the UNIX based MOSS platform the PC based MX platform and the development of the SEA Customisation Kit. Client: Infracore Pty Ltd.

M5 E-Way Implementation & Various Works – 1998 to 2000

Senior MX & Civil Design responsible for the geometric design & coordination conversion of the cash Toll Booths to the automated E-Way facilities at the existing Toll Plaza on the M5 Motorway, Moorebank. Also the senior MX Designer assisting Interlink Roads with the duplication of the M5 from King Georges Road to Fairford Road and the interface with the M5 East. Client: Kellogg Brown & Root (formerly Kinhill).

Pacific Highway Upgrade – Coffs Harbour – 1996 to 1998

Senior MX Designer for the final design checking, drawing coordination & re-design of the Pacific Highway Upgrade from Lyons Road to England's Road, Coffs harbour. Client: Kellogg Brown & Root (formerly Kinhill)

Glebe Island Arterial – Pyrmont – 1992 to 1996

Senior MX Designer and design team leader for the final design of the eastern section of the Glebe Island Arterial, including the alignment of Anzac bridge and the surface road system providing access to the businesses in the Pyrmont precinct. Client: Roads and Traffic Authority, NSW.