

RESUMÉ

Jack Barton

BArch (Hons) UNSW

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Jack Barton is the principle of *Jack Barton Digital Design* (JBDD). He is currently a Research Associate at the CityFutures Research Centre, part-time lecturer and Phd candidate at UNSW.

Research and practice interests include community applications for architectural and urban visualisation technologies, specialising in projects requiring a high level of computer assisted design and with focus on relaying a quality 'sense of place' through innovative techniques and an artistic attention to detail. Expert level skills include:

- Architectural Visualisation, Urban Modelling + Simulation and Advanced 3d analysis;
- Advanced Computer Aided Design, Geographic Information Systems, Spatial Decision Support Systems;
- Mapping urban data, information and knowledge at a range of scales.

EDUCATION

BArch (Hons), UNSW 1998, Master of Architecture (by Research), UNSW, 2002 Upgraded to PhD 2004. Topic: *A Spatial Decision Support System for the Management of Public Housing*. Funded by NSW Department of Housing Research Scholarship.

The SDSS aims to bring together and present many disparate sources of spatial data, geographic information and local knowledge using existing and emerging technologies. Essentially the system is a modular framework. The technologies and methodologies are designed to be highly flexible and adaptable to specific spatial problems. The PhD is expected to be complete by mid 2006.



PROFESSIONAL CONSULTANCIES

1999 – 2000 *National Parks and Wildlife Service, Sydney South Region*

Architectural services and asset management. Jobs included:

- Instigation of a graphically navigable asset drawing database with GIS augmentation.
- Design proposal for 'The Gateway Project': an interpretation and visitor centre for the Illawarra Region and conceptual development for an Indigenous Discovery Centre and meeting/keeping place in a heritage site
- Design visualisation of the proposed Garie Beach Surf Club
- Documentation, maintenance, restoration work of heritage structures.
- Recording of underground water services using Differential GPS/GIS

2000 - 2001 *City of Sydney Special Projects Unit - City Map Project*

Database development, design and production of a full colour 1:5000 AO poster of the City of Sydney, combining aerial photography and vector data outlining a comprehensive document of the fabric of the city in the year 2000.

2002-2004 *The Australian Housing and Urban Research Institute - Research Associate.*

Prepared a web-based interface for the mapping, querying and presenting of crime data from high security police sources and community interviews.

2004-2005 *CityFutures Research Centre – Research Associate*

Generated 3d models of six separate sites in the Western Sydney Region and simulated maximum growth rates to analyse the impacts of development under current zonings.

2005 – *Spinifex Interactive - 3d Project Manager for the 2007 Doha Pan-Asian Games*

Opening Ceremony – Presentation DVD.

Consolidated digital assets from three teams of designers and managed three different teams of animators and to create 20 minutes of CG footage for presentation to Qatari stakeholders.

Other clients of JBDD have included: the Australian Film Television and Radio School (AFTRS), Banks Events, CDP Consulting, CM3 Solutions, GSA Planning, LaCoste + Stevenson Architects, Pollen Media Partners, UrbisJHD, Jewishcare's Print35, John Burgess Architects, Patrick Nicholas Design, smartdesignstudio and Steele Associates. For more details see www.jbdd.com/projects

LECTURING AND TEACHING

UNSW 1999- 2005: Digital Life: General Elective

UNSW 2001, 2004: Urban Modelling: Special Elective

UNSW 2002- 2003: BEPP: Built Environment Preparatory Program for Indigenous Students

UNSW 2002- 2003: Design Tutor: 3rd Year Urban Design

UNSW 2002- 2005: Cad & Visualisation: Postgraduate Core Subject

UNSW 2002: Architectural Visualisations with the Museum of Sydney: General Elective

PUBLICATIONS

Barton, J., Plume, J. and Parolin, B., 2004, "*Public Participation in a Spatial Decision Support System for Public Housing*", Selected for inclusion in the special UDMS issue of the international journal "Computers, Environment and Urban Systems", ed Longley, P.A.

Barton, J., Plume, J. and Parolin, B., 2004, "*Public Participation in a Spatial Decision Support System for Public Housing*". Presented at the "24th Urban Data Management Symposium", October 2004.

Barton, J., Parolin, B. and Weiley, V. 2004, "*A Spatial Decision Support System for the Management of Public Housing: Case Studies and Approaches to Interactive Visualisation*". Presented at the "7th International Conference on Design & Decision Support Systems in Architecture and Urban Planning, DDSS 2004" 2 - 5 July 2004

Samuels, R., Judd, B., O'Brien, B., Barton, J. 2004, "*Linkages Between Housing, Policing and Other Interventions for Crime and Harassment Reduction in Areas with Public Housing Concentrations*", AHURI funded project.

Barton, J., 2003, "*A Spatial Decision Support System for the Management of Public Housing: Literature review*", report on masters research project to the NSW Department of Housing

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