

James Ryan

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EDUCATION AND TRAINING

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| 2009 to 2013 | Bachelor of Engineering majoring in Civil and Construction
Queensland University of Technology |
| 2005 to 2006 | Diploma of Mechanical Engineering
Moreton Institute of TAFE |

EMPLOYMENT HISTORY

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| 2013 to Nov 2015 | Graduate Engineer (Full-Time)
Real Serious Games |
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Key Accomplishments :

- Use of Microsoft Excel for manipulating construction schedule data and other data
- Providing basic mockup drawings for modifications to 3D Models
- QA of software
- Programming of various tools used in the office (C#, WPF and VBA) and communicating with programmers
- General admin duties
- Communicating construction drawings to 3D modelers

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| 2011 to 2013 | Trainee Structural Engineer (Full-Time)
NBR Australia |
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Key Accomplishments :

- Carried out structural design of cold-formed steel portal frame buildings and various types of residential buildings.
- Structural drafting of various commercial and industrial portal frame buildings and residential homes and associated detail drawings
- Developed in-house structural engineering software used for analysing loads and calculating bracing, member and connection requirements for portal frame buildings
- Development of 3D portal frame model and load generation software in Excel/VBA using Multiframe Automation.
- Used many different Australian Standards and product manuals
- Other duties such as general administration and document handling/organisation

2008 to 2012

Draftsman (Part-Time)

Etto Designs and Drafting

Key Accomplishments :

- Assisted with drafting work on all types of residential dwellings
- Mostly architectural drafting of floor plans, elevations, sections, site plans
- Extensively used AutoCad 2007
- Some structural drafting such as bracing and slab plans

2003 to 2004

Apprentice Carpenter (Full-time)

Cottee Constructions (Through All Trades QLD)

Key Accomplishments :

- Constructed new homes (first 3 months of apprenticeship)
- Renovations of residential homes (remainder of apprenticeship)
- Gained experience in several types of construction works, such as carpentry, concreting, landscaping, bricklaying, formwork, steel-fixing and numerous other duties
- Gained 'on site' experience
- Completed 10 modules of related TAFE study before leaving to pursue engineering

Extra Curricular Achievements

- Winner of 2011 Boulderstone National Icons design competition
 - 1st place out of over 150 entries nation wide
 - Winning entry consisted of conceptual redesign of the Story Bridge and 700 word report
 - Mentioned in articles published in Brisbane Times and the Engineers Australia newsletter
- Designed and published two Android applications on Google Play
 - "EasyBeam" a structural engineering application
 - "Where in the World", a Google map and streetview based guessing game

Other Skills

- Very proficient with Microsoft Excel
- Approximately 3 years experience using VBA for programming Excel based engineering programs and other workplace programs for increasing productivity
- Intermediate level knowledge of Java and C# languages and object-oriented software design.
- Some knowledge of Azure, Node.js, html/css/javascript, Angular and jQuery for setting up basic websites.
- Some knowledge of Multiframe/SpaceGass for designing/analysing portal frame buildings and other structures
- Good knowledge of Microsoft Word and other general office related computer skills

Interests

- Computers & Programming(Web, C#, VBA)
- Sharemarket
- Making guitar/electronic songs
- Video Games
- Swimming, tennis, golf, surfing
- Home renovations

REFEREES

Dr Greg Darcy

NBR Australia

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Rod Etto

Etto Designs and Drafting

Ph : 0411 564 529

Professor Tommy Chan

Queensland University of Technology (QUT)

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