

# James Ryan

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## EDUCATION AND TRAINING

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

## EMPLOYMENT HISTORY

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| 2013 to Current | <b>Graduate Engineer (Full-Time)</b><br>Real Serious Games |
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### Key Accomplishments :

- Working with senior engineers to manage and deliver projects
- Interpreting construction plans and schedules from large projects by Theiss, Abigroup, Monadelphous, Lend Lease etc. and communicating documents to project team
- Assist in creating virtual 4D construction projects
- Assist with post production of construction related promotional videos
- Frequent use of Microsoft Excel for manipulating large amounts of construction schedule data and many other types of data
- Providing detailed mockup drawings to Art team for modifications to 3D Models
- Programming of various tools used in the office and communicating with programmers
- Assist with research for job quotes and prepare research documents

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| 2011 to 2013 | <b>Trainee Structural Engineer (Full-Time)</b><br>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

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***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 corporate style websites.
- Some knowledge of Multiframe/SpaceGass for designing/analysing portal frame buildings and other structures
- Sound knowledge of Microsoft Word and other general office related computer skills

**Interests**

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

**REFEREES**

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**Dr Greg Darcy**

NBR Australia

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**Rod Etto**

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**Professor Tommy Chan**

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