

# Robert NICHOLLS

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## MASTER OF STRUCTURAL ENGINEERING | BACHELOR OF CIVIL ENGINEERING

### Value Offered

- Passion for best practice structural and civil engineering that enable the utmost safety and durability of buildings and structures and ensure that materials and resources are used efficiently.
- Master- and Bachelor-level qualifications plus limited but quality experience in the same via two three-month internships with ABC Construction Pty Ltd and Woodford Engineers Pty Ltd.
- Appetite for learning (demonstrated by grade averages across my studies) plus role-essential knowledge including of multiple relevant AASB and ISO Standards as well as relevant Australian legislation/regulations (such as the 'WHS Act 2011', Building Code of Australia (BCA), and Engineers Australia General Regulations).
- Effectiveness in any setting enhanced by other highly developed professional skills and personal qualities including outstanding interpersonal, communication, negotiation, and time management abilities; very strong willingness and ability to learn; and a hardworking and resilient yet flexible approach to all I do.

### Education | Memberships

**Master of Structural Engineering (MEng)** | Monash University | Melbourne VIC 2018 - 2020

- High Distinctions in Structural Theory & Design, Integrated Design, Sustainable Buildings, and Concrete Design & Technology.
- Distinctions in Systems Modelling & Design, Structural Theory, Engineering Practice & Communication, High Rise Structures, and Sustainable Environment Engineering.
- Weighted Average Mark (WAM) of 82.3%.

**Bachelor of Engineering (BEng)** | Monash University | Melbourne VIC 2014 - 2018

- Distinctions in Research Projects, Project Cost Management and Cost Estimating.
- Cumulative Grade Point Average (CGPA) of 82%.

**Memberships:** Graduate Member, Engineers Australia | Member, Professionals Australia

### Technical Skills

- **Design of Reinforced/Prestressed Concrete, Steel & Composite Structures** (according to Australian Standards AS 3600, AS 4100, AS 2870 & AS 1170.0~4)
- **Structural Analysis** (including of Bending, Stress, Strain, Deformation, Slope Stability & Seepage)
- **Scanning Electron Microscope (SEM) Analysis** of Micro-Structural Properties
- **Project Support** (such as Scheduling & Monitoring Progress, WHS Supervision & Materials QC)
- **Software/Applications** include AutoCAD (advanced), SPACE GASS, STAAD Pro, Autodesk Revit, GeoStudio, MS Project, MS Office (advanced)

### Academic Projects

**'Improving Estimating Accuracy in Public Building Construction'**

Associated with: Master of Structural Engineering | Monash University

07/2019 – 06/2020

- This research aimed to define the primary causes of cost overruns in building projects and to study the methods of price control and included undertaking a literature assessment that helped to find the primary causes of overruns on public building projects.

- This research empirically estimated and discussed that all building sector participants must operate to improve building industries and maintain good sector development. In order to overcome issues in building, advisors, contractors and customers in particular must use a holistic strategy; they must become familiarised with the recent technologies and techniques for resolving issues and seek a proactive alternative.

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### **'Identifying Cost Overruns in Residential Construction'**

Associated with: Bachelor of Engineering | Monash University

07/2019 – 06/2020

- The project objective was to identify the various factors that led to cost overruns and to provide feasible solutions in the construction of a residential building. The important reasons were identified by a questionnaire answered by clients, engineers, consultants, and professors. Feasible solutions were provided in order to minimise cost overruns will be found and implemented on a site based on the knowledge from various literatures.

## **Internship Experience**

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### **Civil Engineering Intern | ABC Construction Pty Ltd | Melbourne VIC**

05/2018 – 07/2018

Three-month internship included performing QC checks of materials according to ISO 9001:2008 and ISO 14001:2004 and also afforded the opportunity to gain experience across three key business areas as follows:

- **Infrastructure:** including transport infrastructure, utilities, resources for renewables/tunnelling.
- **Rail:** including complex multi-discipline rail projects and specialist projects covering operations, construction, maintenance and renewals of track, signalling, overhead lines, structures and tunnelling.
- **Building:** including integrated building/operations solutions from initial concept to financing, planning, design, costing, construction, operations and maintenance.

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### **Civil Engineering Intern | Woodford Engineers Pty Ltd | Melbourne VIC**

03/2017 – 06/2017

Three-month internship with this highly regarded engineering consultancy working on major infrastructure projects across metropolitan Melbourne which incorporated:

- Assisting civil engineers on several key government projects involving roadway designs and improvements, solutions easing traffic congestion and replacement of deteriorating bridges.
- Preparing cost-of-materials estimations, report and document tracking, project documentation, on-site project visits, invoice/agreement verification and building permit applications.
- Supporting Site Engineers and Project Managers in onsite management of subcontractors and consultants.

## **Additional Experience**

- Worked as a part-time Crew Member/Acting Team Leader at McDonald's Richmond location during academic studies at Monash University gaining highly relevant transferrable skills including team leadership, frontline customer service and consistent quality control.
- Worked as a casual Food Delivery Driver with Roberto's Pizza delivering orders across Brunswick, Carlton and Northcote gaining highly relevant transferrable skills including maintaining tight lead times, frontline customer service and cohesive teamwork.

## **Referees**

1. **Bertrand Robertson** | Senior Project Manager, ABC Construction Pty Ltd  
M: 0400 000 000 | E: bertrand.robertson@abcconstruction.com
2. **Howard Wilson** | Senior Engineer, Woodford Engineers Pty Ltd  
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