

Robbie van Leeuwen

STRUCTURAL ENGINEER · MSC CANDIDATE

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Education

Delft University of Technology

Delft, The Netherlands

MASTERS OF STRUCTURAL ENGINEERING (STRUCTURAL MECHANICS)

Sep. 2016 - Exp. Jul. 2018

- Weighted Average: 9.2/10.
- Placed first in the following courses: Timber and Timber Structures 1, Steel Structures 2, Probabilistic Design, Plastic Analysis, Structural Dynamics, Stability of Structures, Prestressed Concrete.

The University of Sydney

Sydney, Australia

BACHELOR OF CIVIL ENGINEERING (STRUCTURES) (HONS. I)

Mar. 2009 - Nov. 2012

- High distinction average, with a thesis investigating the crosswind loading and vortex shedding of a building with a unique profile that was inspired by the tubercles on a humpback whale's fin.

Experience

Partridge Structural

Sydney, Australia

DESIGN ENGINEER

Dec. 2011 - Jul. 2016

- Partridge is a medium sized consulting firm that practices in a range of disciplines and specialises in high-end residential projects. In my role as design engineer I was responsible for the detailed structural design and documentation of a variety of building projects including residential, multi-residential, event, commercial and public works.
- I have experience in the structural analysis and design of projects in the following sectors:
 - Unusual Structures
 - Residential Structures
 - Multi-Residential Structures
 - Public Infrastructure
- A portfolio showcasing a selection of my structural design work is available at <https://robbievanleeuwen.github.io>.

The University of Sydney

Sydney, Australia

UNIVERSITY TUTOR

Jul. 2010 - Jun. 2011

- I was a tutor for the second year subject CIVL2201: Structural Mechanics, and the first year subject ENGG1061: Advanced Engineering.
- As a tutor for CIVL2201 I was required to deliver a two hour tutorial to thirty students each week, in which I reinforced the coursework delivered in the lectures and assisted with tutorial questions and assignments.
- As a tutor for ENGG1061 I mentored six advanced engineering students by helping them to deliver a creative solution to an engineering problem.

The University of Sydney

Sydney, Australia

SUMMER RESEARCH SCHOLAR

Dec. 2010 - Mar. 2011

- I was awarded a scholarship to conduct research in a field of my choosing under the supervision of an academic in the School of Civil Engineering.
- In my research, titled 'Validation of the Cobra Probe', I devised a unique method for the calibration of the Cobra Probe anemometer.
- Following an extensive literature review I developed a LabVIEW calibration program, which facilitated the integration of the probe into the wind tunnel at the School of Civil Engineering.

Skills

Structural design

Finite element analysis of structures and structural connections, concrete detailing & design, steel detailing & design, timber detailing & design, glass detailing & design, composite detailing & design, cable detailing & design, foundations and retaining structures, strut and tie modelling.

Engineering software

Strand7, SPACE GASS, RAPT, SLABS, Limcon, Microsoft Excel, AutoCAD, Rhinoceros & Grasshopper.

Programming

Python, MATLAB, LaTeX, VBA, C++, C#, Javascript, HTML5 & CSS, Node.js.

Honors & Awards

2016	Winner , Association of Consulting Structural Engineers NSW: Special/Unusual Projects	<i>Sydney, Australia</i>
2012	Prize , JW Roderick Prize for the Best Thesis in Final Year Civil Engineering	<i>Sydney, Australia</i>
2012	Prize , AS MacDonald Prize of the Association of Consulting Structural Engineers of New South Wales in Structural Engineering	<i>Sydney, Australia</i>
2012	Prize , DG Walkom Prize for First Class Honours in Civil Engineering	<i>Sydney, Australia</i>
2011	Prize , University of Sydney Academic Merit Prize	<i>Sydney, Australia</i>
2010	Prize , University of Sydney Academic Merit Prize	<i>Sydney, Australia</i>
2010	Prize , Civil Engineering Graduates Prize for Structures I and Structural Design I	<i>Sydney, Australia</i>
2010	Prize , Civil Engineering Graduates of 1950 Prize in Soil Mechanics	<i>Sydney, Australia</i>
2009	Scholarship , University of Sydney Entry Scholarship	<i>Sydney, Australia</i>

Writing

Structural Engineering Blog

<https://robbievanleeuwen.github.io>

BLOGGER

Nov. 2015 - PRESENT

- Maintaining and updating a personal blog related to structural engineering and in particular, implementations of computational mechanics.

Memberships

Current **Member of the Institute of Engineers Australia**, [MIEAust]

Current **Student Member of The Institute of Structural Engineers**, [StudIStructE]