

# RACHAEL BROWN

11 Sample St, Wollongong, NSW, 2500

P: 0411 000 111 | E: rachbrown@uow.edu.au | Li: au.linkedin.com/in/rbrown111

## KEY SKILLS

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- Civil/Structural Engineering graduate, with a passion for environmentally sustainable construction.
- Great communicator who thrives on collaborative projects. Active member of the Illawarra Flame House that won the 2013 Solar Decathlon in Beijing, China.
- Leadership and drive: Led a team of 25 multi-disciplinary students to national semi-finals of 'Enactus' inter-university challenge.
- Accountability: I take work and extra-curricular tasks seriously and deliver my best consistently, demonstrated by sporting, voluntary work and academic achievement.
- Strong proficiency in Excel; Basic user of C and C++ and Microsoft Project.
- Proficient with CAD, Matlab, Talpac.

## EDUCATION

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### Bachelor of Civil Engineering

2012 – Nov 2015

#### University of Wollongong

- Distinction average (82%)
- High Distinctions: Roads Engineering; Geomechanics
- Distinctions: Environmental Engineering Design; Civil Engineering Design

## PROFESSIONAL EXPERIENCE

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### Undergraduate Civil Engineer

Nov 2014 – Feb 2015

#### Northrop Consulting Engineers

##### Description

- Undertook 12 weeks' full time professional experience on the Northrop Summer Vacation program
- Completed rotations through Building Services, Water Infrastructure and Mechanical Services.
- Assisted Senior Civil Engineer on a project to determine the ongoing stability of concrete stabilised footpaths around a commercial/retail centre
- Shadowed Associate Engineering Consultants working on an industrial development and gained insight into flood planning, the use of fibre reinforced slabs and gantry cranes.
- Observed the preparation, function and process of tender and contract documents in action, and assisted Civil Engineers to fulfil these.

## EXTRA CURRICULAR ACTIVITIES

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**Student Engineer**

**2012 and 2013**

**Team UOW Illawarra Flame House**

[illawarraflame.com.au](http://illawarraflame.com.au)

Description

- Objective: to 'design and construct' a sustainable, solar powered house, using retrofit technologies. A team of 40 students from UOW and TAFE Illawarra worked on the house which won the 2013 Solar Decathlon competition in China.
- Assisted in costing estimates for construction materials and researched appliances.
- Contributed to final product manual for the house.
- Gained amazing exposure to environmentally sustainable design principles and leading technologies used around the globe.

## PROFESSIONAL MEMBERSHIPS

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Engineers Australia, Student Member

Engineers without Borders, Student Member

Women in Engineering, Member - Student Chapter

## ADDITIONAL EMPLOYMENT

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**Sales Assistant**

**Jan 2011 – Current**

**Myer, Wollongong**

Description

- Casual position, averaging 15 hours per week, whilst studying
- Served and interacted with customers in the manchester/bedding area.
- Arranged merchandising displays for brand promotion and Myer sales periods.

## VOLUNTARY EXPERIENCE

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**Vice President**

**Mar 2013 – July 2014**

**Enactus**

*Enactus is a community of businesses and students that collaborate on entrepreneurial projects that improve the standard of living of people across the globe.*

Description

- Active university role, averaging 2 - 5 hours per week.
- Managed the UOW team Business Advisory Board.
- Led and coordinated a team of 25 students in three local volunteer projects.
- Presented business models of the volunteer projects to national Enactus conference, and led the team to the national semi-finals.

## VOLUNTARY EXPERIENCE continued

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### Volunteer

Jan – Feb 2013

#### International Student Volunteers (ISV)

##### Description

- Two week visit to Mong Ngok (remote tribal mountain village in north of Thailand).
- Assisted in the construction of a western style toilet block, maintenance of school and in teaching English to children at the local school.

### Juniors Coach

2009 – 2013

#### Kiama Netball Club

##### Description

- Coached junior netball team through four years (7 – 11 yrs).
- Won 2012 and 2013 grand finals.

### UniCrew Member

2014 and 2015

#### Centre for Student Engagement, University of Wollongong

##### Description

- UOW Buddies program: Spent fortnightly lunchtime activity and chat sessions with new international students to build friendships and a welcoming university environment.
- Assisted in the hosting of weekly trivia nights at the University, which involved interacting with audiences and some microphone work.

## INTERESTS

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- Representative netball u.21's (Illawarra District Netball Association) 2010 - 2014
- Open Division Regional State League Player (South Coast) 2015
- Yoga (weekly classes for last two years)
- Running (for fitness and wind-down)

## REFEREES

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### Julia Bloggs

Consulting Engineer

Northrop Consulting Engineers

Wollongong

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[juliab@northropsample.com.au](mailto:juliab@northropsample.com.au)

### David Chee

Sales Team Leader

Myer

Wollongong

00 0000 0000

[dchee@myersample.com.au](mailto:dchee@myersample.com.au)