

# KIERAN BRENNAN

## PERSONAL INFORMATION

Born in New Zealand, 13 October 1993

email [kbreg3@gmail.com](mailto:kbreg3@gmail.com)

phone (M) +64 27 841 2714

## EDUCATION

PhD in  
Bioengineering

2015– The University of Auckland, New Zealand

Thesis: *Real-time fluid penetration imaging for Needle-free Jet Injection*

Supervisors: A/Prof. Andrew TABERNER, Prof. Poul NIELSEN, Dr. Bryan RUDDY

Bachelor of  
Engineering  
(Honours)

2012–2014 The University of Auckland, New Zealand

GPA: 8.96 out of 9.0

Specialisation: Engineering Science

Honours Project: *Creating Models of Episodic Memory for Interactive Learning* (A+)

Supervisor: Assoc. Prof. Mark SAGAR

Top in course awards:

2014 · Advanced Continuum Mechanics (CM), Computational Techniques in CM and Bioengineering, Computational Algorithms for Signal Processing

2013 · Bioinstrumentation and Design, Computational Techniques II, Modelling and Design II, Continuum Modelling in Bioengineering

2012 · Modelling and Design I, Intro. to Engineering Computation and Software Development

## WORK EXPERIENCE

The Laboratory for  
Animate  
Technologies

Nov 2014–Present Research & Development Intern, LAT

Developed a computational memory system that simulated working memory in the pre-frontal cortex of the brain in order to learn and recall sequences of patterns.

The Laboratory for  
Animate  
Technologies

Nov 2013–Feb 2014 Engineering Intern, LAT

Developed a software control system for a lighting and DSLR camera rig used to create realistic, fine-scale digital reconstructions from human models.

The University of  
Auckland

Feb 2014–Nov 2014 Resident Advisor, INTERNATIONAL HOUSE

Resident Advisor at a university hostel providing assistance and organising events.

Higgins Group  
Holdings Ltd

Nov 2012–Feb 2013 Assistant Engineer, HIGGINS GROUP

Assistant intern for head Maintenance Engineer, tasked with revising and formally documenting roading maintenance procedures.

NCEA Campus

April 2013 High School Student Tutor, NCEA CAMPUS

Tutor for high school age students, helping with Physics and Biology at NCEA level 3 and Scholarship level.

## ACHIEVEMENTS AND AWARDS

2015

University of Auckland Doctoral Scholarship

Dick and Mary Earle Scholarship in Technology

Management Consulting Club Engineering Case Competition — Runner up

- 2014 University of Auckland Dean's Honour List — top 5% of year group  
James Gordon Goodfellow Memorial Prize — 'the most distinguished academic performance throughout the entire engineering programme'  
Senior Scholar Award — 'highest overall grades in degree programme'
- 2013 University of Auckland Dean's Honour List  
Institute of Professional Engineers New Zealand (IPENZ) Tomorrow's Engineering Leaders
- 2012 University of Auckland Dean's Honour List  
IPENZ Scholarship  
University of Auckland Scholarship  
Kick Start University of Auckland Scholarship
- 2011 NZQA Premier Scholarship Award  
Dux Litterarum, Palmerston North Boys' High School  
New Zealand Representative at Australian National Youth Science Forum  
Associate of Trinity College London for Classical Piano

#### ADDITIONAL SKILLS AND EXPERIENCE

##### *Formal Presentation Experience*

- 2014 · 1<sup>st</sup> prize for poster and talk competition for engineering internship  
2014 · Honours project presentation awards: ranked 1<sup>st</sup> by students and ranked 3<sup>rd</sup> by staff  
2011 · Completed Toast Master's International public speaking course

##### *Multi-disciplinary Teamwork*

- 2014 · Led 25-person multi-disciplinary team in 4<sup>th</sup> year engineering management course earning a project mark of 100%  
2012–13 · Received A+ grades in all management and communication courses for Parts I, II and III of degree  
2014 · Resident Advisor at a University hostel  
2013–14 · Member of the Management Consulting Club – selected for the competitive development squad

##### *Excellent Interpersonal Skills*

- 2013 · Academic mentor for a first-year Scholarship recipients offering guidance and advice  
Can communicate effectively and relate well to people of different social and ethnic backgrounds  
Enjoy being part of a team and am quick to learn and adapt.

##### *Interests*

- Soccer · Piano · Weightlifting · Guitar · Tennis