

# Lachlan J. Greve

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## Skills

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| <b>Technical Expertise</b> | Experience in practical research applying advanced data analytics, political advocacy within the fields of engineering and manufacturing, as well as the provision of advice regarding compliance to Australian standards and regulations.                                  |
| <b>Problem Solving</b>     | Graduated Bachelor of Chemical Engineering with Cumulative GPA: 3.9/4.0 (Honours 1 <sup>st</sup> Class). Provided fundamental research which led to a patented invention and the formation of a commercial company – Atmo Biosciences.                                      |
| <b>Communication</b>       | Established relationships with policy makers and industry executives to deliver improvements for Lighting Council Australia. Prevented the introduction of regulation which would have cost the industry \$480 million in additional compliance cost over a 10-year period. |
| <b>Leadership</b>          | Approachable, reliable, and can-do attitude as demonstrated as a volunteer for ACES, SSCC and Standards Australia technical committees: EL-041, LG-002, LG-007, LG-010. Selected by Standards Australia for the <i>NEXTgen</i> young professional leadership program.       |

## Education

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| <b>RMIT University, School of Engineering</b>   | Melbourne, Australia  |
| CANDIDATE FOR DOCTOR OF PHILOSOPHY (WITHDRAWN)  | Mar. 2017 - Feb. 2019 |
| <ul style="list-style-type: none"><li>• Research Topic: SnO<sub>2</sub> gas sensor enabled by machine-learning for the quantification of short-chain fatty acids</li><li>• Supervisor: Dist. Professor Kourosh Kalantar-zadeh</li><li>• ECE / ARC Centre of Excellence stipend scholarship</li><li>• Withdrawn in good standing</li></ul> |                       |
| <b>RMIT University, School of Engineering</b>   | Melbourne, Australia  |
| BACHELOR OF ENGINEERING (CHEMICAL ENGINEERING) (HONOURS 1 <sup>ST</sup> CLASS)  | Mar. 2012 - Nov. 2016 |
| <ul style="list-style-type: none"><li>• Honours 1st Class</li><li>• Cumulative GPA: 3.9/4.0</li><li>• Dux of 2016 graduating class</li><li>• Deans' list for academic excellence ('14,'15,'16)</li><li>• Summer project scholarship</li></ul>   |                       |

## Experience

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| <b>Lighting Council Australia</b>   | Melbourne, Australia |
| CORPORATE AFFAIRS MANAGER   | Apr. 2019 – Current  |
| <ul style="list-style-type: none"><li>• Corporate Affairs Manager for Australia's lighting industry peak body, representing over 100 manufacturers and distributors. A diverse role that embodied technical, advocacy and administrative responsibilities.</li><li>• Provided technical advice and fee-for-service consultation regarding compliance to Australian Standards and regulations. Contributed engineering knowledge by participating in the development of new and revised Standards whilst sitting on four Standards Australia technical committees.</li><li>• Established close relationships with industry executives, parliamentarians, and public servants to advocate for policy changes that benefited the lighting industry. Contributed to a team effort which prevented the introduction of regulation which would have cost the industry \$480 million in additional compliance cost over a 10-year period.</li><li>• Prepared agendas, discussion papers and minutes for board meetings and technical working groups. Established a human centric lighting working group which brought together academics and leading industry representatives to fund research and further advance novel industry sectors in Australia.</li><li>• Organised promotional and educational events and materials to help raise funding and public profile of the company. Assisted in organising the National Awards for Excellence in Lighting, a 330-guest gala dinner event, overseeing entertainment, sales, promotion, and sponsorship.</li></ul> |                      |

**RMIT University**

PHD CANDIDATE

Melbourne, Australia

Mar. 2017 – Dec. 2018

- Implemented an innovative design of a custom sparging filter system capable of controlled transport of chemical vapours used for measurements, calibration, and verification (via GC-FID and HPLC) of gas sensing materials.
- Developed circuits, programmed micro-controllers, and wrote data acquisition programs in JavaScript, C++ and MATLAB for time critical collection of gas sensor calibration data.
- Applied machine learning algorithms to preform dimension reduction of transient sensor responses and built a predictive model capable of quantification and classification of analytes from multi-component mixtures.
- Provided fundamental research which led to a patented invention and for the formation of university spin-out company - Atmo Bioscience.
- Received training for the operation of specialist analytical and fabrication equipment including reticulated gas, automated flow meters, reactive ion etching, photolithography, gas chromatography and electron microscopy.

**WorleyParsons**

STUDENT INTERN

Melbourne, Australia

Sept. 2015

- Worked as a part of a team to preform risk identification techniques by participating in HAZOP and HAZID analysis for a natural gas processing facility.
- Assisted Senior Process Engineers with feasibility analysis for the PNG LNG development project by evaluating different LNG export options.
- Developed numerical models using Microsoft Excel to provide adiabatic flame calculations needed to estimate flare gas combustion temperature for an international client.
- Reviewed and catalogued trips & alarms from over 270 process flow and instrumentation diagrams into a single database that combined two previously independent systems to increase efficiency and reduce safety hazard.

**The Pancake Parlour, Melbourne Central**

COOK (PART TIME)

Melbourne, Australia

Mar. 2014 – Apr. 2019

- Developed multi-tasking, management, and communication skills in a fast paced and time-critical environment
- Facilitated the training and supervision of new staff.
- Worked on a weekly basis whilst maintaining a full-time academic schedule.

## Activities & Volunteering

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**Standards Australia**

VOLUNTEER

Australia

Apr. 2019 – Current

- EL-041 (Lamps and Related Equipment) technical committee member
- LG-002 (Emergency Lighting in Buildings) technical committee member
- LG-007 (Lighting for Roads and Public Spaces) technical committee member
- LG-010 (Obtrusive Effects of Outdoor Lighting) technical committee member

**Student-staff Consultative Committee (S.S.C.C)**

STUDENT REPRESENTATIVE

Melbourne, Australia

Mar. 2014 – Dec 2016

- Discussed curriculum-related issues and collaborated with staff to help improve course delivery and structure.

**Association of Chemical Engineering Students (A.C.E.S)**

SECRETARY &amp; 3RD YEAR COMMITTEE MEMBER

Melbourne, Australia

Apr. 2019 – Current

- Organised social and professional development events and provided academic support.

**Touch Football**

TEAM MEMBER &amp; REFEREE

Australia

2004 – Current

- Player's Player Award (2010)
- Junior Referee of the Year Award (2008)
- State representative team ('06 – '08)

**Rugby Union**

STUDENT REPRESENTATIVE

Australia

2004 – 2013

- State-wide Best and Fairest Award (2011)

## Referees

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**Professor Kourosh Kalantar-Zadeh**

Professor of Engineering at the University of New South Wales (UNSW)

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**Dr. Kyle Berean**

Chief Technology Officer, Atmo Biosciences

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**Mr. Pratik Prabhu**

Kitchen in Charge, Pancake Parlour Melbourne Central

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