

MIKA DRAPER

Electrical/ Electronic Engineering and Mathematics Student

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As a resourceful electrical engineering and mathematics student, I am fascinated by the creative thought processes underlying the new technologies of the 21st century. With an enquiring and analytical mind, project planning skills, and diverse professional experience in Australia and abroad I am committed to innovative, ethical engineering practices.

PROFESSIONAL EXPERIENCE

ASSISTANT ENGINEER (INTERN) | NOV 2018 - JAN 2019

Precision Group, Newcastle

Collaborated with Engineers and Project Manager to review the functionality of remote level crossing controllers in regional NSW. Based on my statistical analysis, recommendations for the new computer system was approved by management for use in trial phase.

ENGINEERING PROJECT | AUG 2018

AVC Communications, Perth

Research project investigating barriers and solutions to remote computer access of telecommunications infrastructure in rural areas in Northern Territory and Western Australia. After sharing my findings with the Divisional Manager, I formally presented my report and recommendations to the Corporate Strategy Committee.

TEAM LEADER: MALAWI | JUNE 2018

TEAM MEMBER: FIJI | FEB 2017

Project Everest Ventures Engineer Entrepreneur Internship

Conducted feasibility assessments and researched the implementation and iteration of environmental sustainability systems, using empathy-driven research methodologies. This was practical experience in interdisciplinary collaboration with other university students and cross-cultural engagement with local communities in developing countries.

INTERN: IBM Internship Program | JAN - DEC 2016

IBM, Sydney

Mentored by managers across a range of departments and actively contributed to client interactions on numerous projects. This opportunity honed my project management skills, learn new technologies and business methodologies, and work as part of a team

CASUAL EMPLOYMENT

MATHEMATICS AND PHYSICS TUTOR | JUNE 2016 - CURRENT

Primary, Secondary, HSC and first year university students

EXHIBITION GUIDE | DEC 2018 - FEB 2018

The Art of Problem-Solving, Newcastle Museum

Drawing on my engineering knowledge and experience, I provided informative guided tours of this exhibition, showcasing exciting engineering and computing innovations.

EDUCATION

BACHELOR OF ELECTRICAL & ELECTRONIC ENGINEERING/BACHELOR OF MATHEMATICS

University of Newcastle,
2016 - Exp Comp. Nov 2020

STUDENT EXCHANGE: COMPUTER SCIENCE

Telecom Bretagne, France

Sept 2017- Jan 2018

Award: FEBE Student Exchange Scholarship

CORE SKILLS

- Computational and critical thinking skills, as demonstrated when interpreting data
- Project planning and document management
- Communicator with collaborative team skills
- Competent in LV circuit designs, switchgear and control systems,
- HV circuits and infrastructure
- AutoCAD, Visual Basic, MATLAB, C++

EXTRACURRICULAR

UON Engineering Society

UON Student Exchange Network

PROFESSIONAL MEMBERSHIPS

2019 Engineers Australia - Student Member

2019 Australian Mathematical Society

REFEREES

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