

James Watt

0417 477 269

James_Watt@gmail.com

<http://www.linkedin.com/in/james-watt-38b5b617b>

MV Solar's passion for changing the world through decisive action and commitment align strongly with my own personal values and professional goals. My intention is to become a leading professional in the renewable energy industry and am interested in ways of implementing more efficient energy systems in society.

EDUCATION

2017 – Present

Bachelor of Mechanical Engineering (Honours)

University of Newcastle, Callaghan, NSW

- Faculty of Engineering and Built Environment Commendation List (2017-2019)
- Weighted Average Mark (WAM) of 77 or above

INDUSTRIAL EXPERIENCE

Jan 2020 – Current

University Final Year Project

University of Newcastle, Callaghan, NSW

Project: Re-Design of Drivetrain of 5kW Wind Turbine

Key Responsibilities

- Research available direct-drive turbine generators and perform a multi-factor weighted analysis to determine suitable generator
- Calculate required mechanical capabilities and design the braking system, bearings, shafts and possible gearbox to meet requirements of generator and Australian Standards
- Write a Thesis and prepare two separate presentations to explain and justify the decisions and processes taken throughout the project to peers and academics

Dec 2019 – Current

Intern

Caterpillar, Rutherford NSW

Key Responsibilities

- Communicate professionally with suppliers and internal employees from different teams
- Work in a team of five, both collaboratively and independently, to design and test a new product
- Provide engineering support during product development
- Analyse and manipulate data using Python
- Maintain attention to detail when writing project reports

Nov 2018 – Dec 2018

Design Draftsperson (Industrial Placement)

Central Engineering, Glen Inness NSW

Key Responsibilities

- Designed parts and assemblies in Autodesk Inventor
- Implemented industry and professional standards in technical drawings
- Communicated effectively with a range of in-house tradespeople to discuss project requirements and feedback
- Provided engineering support during manufacture

PROFESSIONAL SKILLS

IT:

- Engineering programs (CAD, CFD, FEA, Matlab, Python packages)
- Reporting software (MS Office, Endnote)

Professional Communication:

- Engaged in formal report writing and presentations for both University assignments and projects in industry

Teamwork:

- Involved in a number of different team dynamics in group assignments at University
- Worked collaboratively President of Edwards Hall Residents Committee, working collaboratively with committees of other residences

PROFESSIONAL MEMBERSHIP

2018 – Present

Engineers Australia Student Member

2017 – 2018

UoN Engineering Society

FURTHER EMPLOYMENT HISTORY

Mar 2016 – Nov 2016

Stationhand

Alexandra Station, Northern Territory

Key Responsibilities

- Performed maintenance on infrastructure and a range of machinery
- Installed and maintained solar pumps and windmills
- Worked unsupervised and was given responsibility to make technical decisions

Jan 2010 – Current

Casual Assistant

Watt's Butchery, Glen Inness NSW

Key Responsibilities

- Provide positive customer engagement
- Perform order delivery services

N.B. I continue to work in the family business, when required and have done so from a young age.

LEADERSHIP

2018

President: Edwards Hall, University of Newcastle

- Edwards Hall is an on campus residence with 300 students from a range of backgrounds

2015

School Captain: Inverell High School

INTERESTS

- Sport – rugby league, cricket and touch football
- Outdoors – rock climbing, hiking, camping, fishing,
- Music – playing guitar and piano
- Travelling – travelled and worked around Australia in my gap year

REFEREES

Mr. Jim Parsons

Owner/Manager
Alexandria Station
08 7654 3210
Jim@bigpond.com

Mr. Leyton Hewitt

Technology Development Manager
Caterpillar Mining Corp.
0412 234 678
leyton.hewitt@mining.caterpillar

Mr. James Cameron

Senior Design Engineer
Central Engineering
0432 459 125

Mr. Santa Claus

Final Year Project Supervisor
University of Newcastle
02 4921 1111
santa.claus@newcastle.edu.au