

# Jackson Hemi

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## Skills

- Great communicator and team player.
- Proven Leadership and mentorship
- PTCU associate level knowledge in CAD (Creo Parametric)
- Experienced with Windchill Product Lifecycle Management
- Experienced with Microsoft office tools, Atlassian tools, and Python.
- Problem diagnosis and solving through critical thinking.
- Strong time management

## Education

**University of Auckland - Auckland, New Zealand** **2015 - 2018**

Washinton accord - Bachelor of Mechanical Engineering, **Honors** – 2<sup>nd</sup> Class, 1<sup>st</sup> Division

**Mt Albert Grammar School, Auckland New Zealand** **2010 - 2014**

## Work Experience - Engineering

**Fisher & Paykel Technologies | Product design Engineer | Auckland | JAN 2022-JAN 2024**

- Fisher & Paykel Technologies support the HAIER and Fisher & Paykel manufactured range of domestic appliances. Acting as an innovation partner specializing in motor design.
- Product design role. Requires application of engineering principles and collaboration with teammates to specify, design, prototype, and test electrical motors. Conception of innovative new technologies within the rangehood market through design sprints, and research projects to set FPT's main client, Haier, apart from competitors.
  - Applying technical engineering knowledge to improve the consistency and accuracy of testing facilities for the rangehood project team.
  - Gained experience as a technical lead during a motor design project. Balancing cost, time, and performance ensured the new motor was optimized for client use cases and requirements.
  - FPT Rangehood teams' Constant airflow project improved perception of Haier in the Chinese rangehood market. Applying principles of customer-centric design ensured that the new technology added value to users.

**PetroMac | Graduate Mechanical Engineer | Auckland |** **May 2020 – DEC 2021**

- PetroMac is a small New Zealand owned company who design and supply specialized wireline conveyance systems for Geophysical logging tools. They supply multinational companies globally and are supported by the Callaghan innovation grant.
- During Engineering Research and Development role, contributed to the new Focus precision centralizer product line which allowed the business to dominate a new market. Responsibilities included setting and conducting function, life, and stress testing on products. Researching and proving

optimal solutions and participating in the product design and innovation process. The role required a mix of independent work, and collaboration with team members.

**Watercare Services Ltd | Intern Engineer | Auckland |**

**Nov 2017 – Feb 2018**

- Summer internship in the water and wastewater network engineering department. Involved customer interaction, Solving escalated network issues, network maintenance, assessment and recommendation for compensation claims, working in a large team environment. Required to investigate and solve difficult, ambiguous problems and developed techniques to rapidly acquire information to solve them.

**Autolathing Engineering | Machine Operator | Auckland |**

**Nov 2016 - Feb 2017**

- Summer internship in a manufacturing environment. Setup and operated both manual and CNC workshop machinery. Manufactured various components for industries including Mining and Healthcare. Improved skills in safe machining practices, quality control, the manufacturing process. Developed an appreciation of important considerations made when designing for manufacture.

## **Work Experience – Other**

While on a gap year in Canada, Nov 2018 to March 2020, Held various roles within the ski industry. Based in Big White and Banff, the customer interface, a large part of the role. Being an informed and confident communicator was helpful to facilitate customer satisfaction.

**Sunshine Village | Rentals Attendant | Banff, Canada |**

**Oct 2019 – Mar 2020**

**Rimrock Resort Hotel | Bellman | Banff, Canada |**

**May 2019 – Sept 2019**

**Big White Ski Resort | Custodian | Big White, Canada |**

**Nov 2018 – April 2019**

## **Volunteer Work**

**Wonder Project – Engineering New Zealand |**

**2022**

Working alongside a schoolteacher to bring The Rocket Challenge to a classroom of young kiwis. A program designed for primary school kids to get them excited about science, technology, engineering and math.