



CALLUM GREEN JUNIOR DESIGN ENGINEER



For more information, check out rmlnz.com

If you're into tech, machines, and solving real-world problems, RML Machinery might just be your dream workplace.

Based in Hamilton, RML builds automated machinery that can be customised for industries such as FMCG and dairy – think robots and control systems that help these companies pack, move, and produce faster and smarter.

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Q & A

The FutureForce® Crew sat down with Callum to chat about his role...

TOP CAREER TIP

"I THINK IT'S IMPORTANT TO BE A HUMBLE LEARNER. YOU NEED TO BE COMFORTABLE NOT KNOWING ALL THE ANSWERS, BUT HAVING THAT DRIVE TO LEARN AND SEEK OUT THE ANSWER WILL SET YOU APART."

SO, WHAT IS A DESIGN ENGINEER?

As a junior designer, I work alongside a team of senior and intermediate design engineers. I am involved in coming up with ideas and working on different parts of a design project. This team dynamic allows junior designers like myself to seek advice from those who have worked in the industry for a longer time.

As design engineers, we work to improve existing machinery, but also customise and create new designs that meet our customers' needs. We are able to utilise principles from past designs and rework these for a new context.

WHAT ABOUT BEING AN ENGINEER INTERESTED YOU?

In school, I was always good at physics, maths, and chemistry. These strengths aligned with the entry requirements to university. I am someone who likes problem-solving and working to find better ways of doing tasks and improving systems.

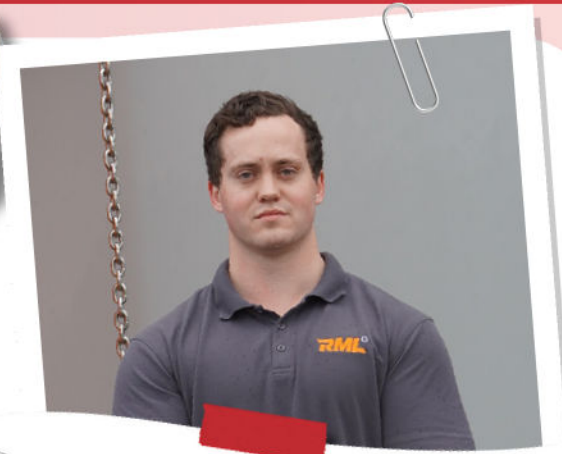
WHAT DO YOU LOVE ABOUT WORKING AT RML?

The products we design are highly complex; there are elements of mechanical, electrical, and software systems all working together at the same time. This means I can pull from the different skills I have learnt in my degree in many ways. We don't just focus on one way of doing something, but instead are constantly looking at the bigger picture and new ways for things to be done.

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CAREERS HUB



CALLUM GREEN
JUNIOR DESIGN ENGINEER

TIPS & ADVICE

WHAT KIND OF PERSON MAKES A GOOD ENGINEER?

Someone who loves problem-solving and coming up with new processes. Just because it has been done before doesn't mean it is the only way to do something.

WHAT WOULD BE YOUR ADVICE FOR SOMEONE CONSIDERING ENGINEERING?

Time management is a massive part. In university, you may find yourself juggling lectures to watch, content to learn, and projects to complete. Being able to acknowledge how you spend your time and effectively prioritise is a key skill.



WHAT DOES A DESIGN ENGINEER DO EXACTLY?

On the job, design engineers do things like:

- Develop and sketch ideas for products or systems.
- Create detailed designs using CAD software.
- Select materials and components.
- Test prototypes and refine designs.
- Produce technical drawings and documentation.
- Collaborate with manufacturing and project teams.

WHAT OPPORTUNITIES CAN LEAD ON FROM HERE?

The pathways from this position can go in a couple of directions. You can move up to be a senior design engineer. You become the innovators coming up with ideas for new machines.

There is also the pathway of becoming a project engineer, which involves higher-level details of a project—communicating with customers, producing an initial layout, and forming budgets.

I am still finding my footing at RML, as I have only been here eight months. I would like to apply my interest in mechatronics by developing programs to automate our work and understand our machines from an automation design perspective.

