



Roydon Mackay

Mechanical Design Engineer

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Employment

2015 - Present

Blade Engineering / Wingfield Design Engineer

- Serving as the sole design engineer for Blade Engineering during this period.
- Was the main point of contact with new customers, working with them to specify the right vehicle for their requirements / budget, and then preparing a quote and presenting it to the customer
- Remained as the primary point of contact through out the project, providing clear communication to the client and organization.
- Design all new products, prepare detailed drawings and complete design of all supporting systems (hydraulics, controls etc.)
- Implemented new systems to improve workshop efficiency
- Supervise the manufacturing process of all designs.
- Provide aftersales support, answering questions, specifying maintenance and other asset management protocols, assisting with any modifications required and was also the primary technician in the event of vehicle breakdowns

Key Achievements:

- Utilised superior engineering and systematic design skills to successfully complete all manufacturing designs during this 5-year period; designed & managed numerous projects with values over \$600 000 + GST.
- Demonstrated keen analytical and organisational skills to successfully implemented current manufacturing best practices which reduced hours by over 35%.



Education

2013 – Current

University of Southern Queensland Bachelor of Engineering / Business



Skills

Technical Skills

- **Autodesk Inventor** – 5 Years experience with mechanical design & drafting incl. FEA, Structural and Tube & Pipe
- **AUTOCAD** – 3 Years experience mechanical drafting
- **Codesys 2.3** – 4 year experience, includes initial design of control system, writing the program for the various PLC's and commissioning the new project
- **3D Printing** – Experienced with 3D printing and constantly developing new capability in this area, inquire for material options and capabilities

Personal Skills

- **Innovative** – Experienced dealing with complicated physical systems and creating new solutions to improve manufacture and performance
- **Organisation** – manufacturing business's face significant delays if plans are not completed on time, I understand the importance of this, and will ensure I meet all deadlines
- **Attention to Detail** – Ensuring your construction drawings hold all the information required to plan and complete each job gives a clear competitive edge and allows your business to be much more efficient, and takes the stress out of new jobs, even custom work



Core Competencies

- Demonstrated 5 years' professional and progressive work experience in custom and bespoke manufacturing, encompassing ethics and integrity in design engineering, project management and stakeholder engagement.
- Exceptional technical and mechanical design acumen with superior aptitude to develop, execute and deliver tangible, measurable results that support and enable the organisation to achieve its strategic objectives.
- Deliver results on time, to budget and to correct quality standards with the ability to manage human, physical and financial resources in an environment of constraint.
- Proven capabilities in building and developing teams and uses a motivating and collaborative approach to re-invigorate and develop focus on performance and growth.
- Results-focused with a natural talent for utilising effective communication strategies, interpersonal skills, tact and diplomacy to manage, influence, negotiate and foster long-term strategic relationships with internal and external stakeholders in a culturally diverse environment.