

YASIRU RATNAYAKE

DESIGN ENGINEER

Email: yw.ratnayake@gmail.com
LinkedIn: www.linkedin.com/in/YasiruRatnayake
12 Pennant Street, Castle Hill, 2154

EDUCATION

Bachelor of Engineering Technology
Mechanical Engineering
Auckland University of Technology
February 2018 – June 2022
GPA - 7.07
Graduation - October 2022

TECHNICAL SKILLS

- SolidWorks (Sheet metal, Weldments,PDM), Draftsight, AutoCAD, Inventor
- Word, Excel, PowerPoint, Outlook, Office
- Technical Writing & Documentation
- Geometric Dimensioning & Tolerancing
- Sheetmetal Profiling

SOFT SKILLS

- Effective Verbal and Written Communication
- Leadership and Teamwork
- Adaptability
- High Attention to Detail
- Problem Solving

HOBBIES

- Gym - Powerlifting and Boxing
- Swimming
- 3D Printing
- App Development

LANGUAGES

- Fluency in Singhalese - Written and Spoken
- Fluency in English - Written and Spoken

EXTRACURRICULARS

Design Team Lead - Vehicle Ergonomics
Formula One Society of Automotive Engineers (FSAE)
March 2021 – September 2021

- Collaborated with team of 4 to optimize safety operations for Formula one race-car

WORK EXPERIENCE

Junior Mechanical Engineer
Oct 2024 - May 2025
Fruehauf NZ. Limited

- Independently engineered 30+ high-value trucks and trailer (\$100k-1.5M) from concept to completion using AutoCAD & SolidWorks with stringent safety & engineering standards
- Built a bespoke ERP-Style Excel tool that automated component cross-referencing for 100+ standard parts, slashing job order time by 50% and cutting costly errors by 75%
- Streamlined operations by resolving 2 major design bottlenecks, unlocking faster collaboration between engineering, procurement and production teams

Mechanical Engineering Draughtsperson
Feb 2023 - July 2023
Active VMA

- Produced 50+ precision drawing using SolidWorks and AutoCAD sets for heavy vehicle and machinery attachments - including detailed cutting lists, folds, and machining specs — ensuring seamless procurement and fabrication.
- Averted costly production delays by detecting and correcting 10+ critical drawing errors in training, saving over \$5,000 in materials and labour.

Mechanical Engineering Intern
July 2019 - May 2020
GrainCorp Limited

- Updated 20+ Standard Operating Procedures and competency assessments to improve plant safety and operational efficiency.
- Performed detailed volumetric analysis of internal tank farm systems, leveraging Excel to present actionable insights to decision-makers.
- Contributed to facility upgrades by designing two plant units - including a functional bathroom layout - and assisting in the ergonomic redesign of the main cafeteria using AutoDesk Revit.

PROJECTS & RESEARCH

Panel System for Multi-Storey Commercial Building Fire
March 2021 - June 2021

- Led a team of 3 to design and develop a cost-effective fire containment panel system for a multi-storey corporate building in Auckland CBD, securing a 94% project grade.
- Independently designed and engineered key components using Inventor, including a modular panel assembly, hinge-lock mechanism, and integrated sprinkler system, effectively reducing fire spread risks.
- Developed a comprehensive Bill of Materials (BOM) for 10+ precision-engineered components, optimizing material usage and reducing the proposed project budget by 24%.

REFEREES

Provided upon request