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# YEMAL BANDARA

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## PROFESSIONAL SUMMARY

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Dedicated **Permanent Resident** Mechatronics Engineer with **5+** years of expertise in product design, CAD modeling, and engineering analysis (including DFM, FMEA & FEA). Proven track record of delivering innovative and efficient design solutions in the medical equipment manufacturing industry. Analytical and performance-driven Engineer with extensive experience in mechanical engineering. Evaluates designs and implements new technologies to produce innovative equipment. Possesses proven track record of creating successful and cost-efficient designs. Refer to Cover Letter for more details.

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## WORK HISTORY

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### Design & Manufacturing Mechanical Engineer

06/2023 – 04/2025

#### Planet Innovation Ptv Ltd

- Produced detailed mechanical and structural design drawings using SolidWorks and Fusion360, ensuring compliance with engineering standards for precision manufacturing and infrastructure integration using machining equipment such as CNC, lathe, milling, sheet metal bending, guillotine and other power machinery.
- Conducted structured failure investigations (FMEA and root cause analysis) for mission-critical subsystems, delivering detailed engineering reports and corrective actions to senior stakeholders.
- Evaluated final product's overall performance, reliability and safety (Commissioning) resulting in 100% successfully commissioned products.
- Collaborated with cross-functional teams to identify opportunities for cost reduction (& Cost Estimation), achieving 30-40% savings without compromising on quality.
- Demonstrated responsiveness and accountability by adapting designs in real-time to address supply chain issues and field feedback, maintaining production timelines without sacrificing quality.
- Mentored and supported cross-functional engineering teams, delivering knowledge transfer sessions and fostering collaboration to meet shared project goals with professionalism and integrity.

### Associate Mechanical Design Engineer

03/2022 - 06/2023

#### Planet Innovation Ptv Ltd

- Worked closely with Engineers to process Engineering Change Orders and automated the manual workflow using Python, resulting in 80% time saved by resources.
- Managed complete product lifecycle-from concept, prototyping, and detailed design through to manufacturing, validation, and field commissioning-delivering results ahead of schedule by up to 20%.
- Delivered detailed technical documentation and instructions to support manufacturing, assembly, and field service teams, ensuring clarity and reducing rework incidents.
- Supported engineering teams in designing and developing new mechanical systems to conducted tests and evaluations.
- Collaborated with key stakeholders and maintained detailed records of design changes, documenting 100% of revisions for traceability and compliance.

**Deakin University Research & Development**

- Successfully led and mentored a team of 5+ members, providing guidance on techniques and best practices to efficiently complete tasks and achieve project goals 20% ahead of schedule.
- Consistently demonstrated leadership by embodying professionalism, commitment to excellence, and alignment with company values, serving as a role model for the team.
- Developed detailed mechanical system design CAD models and precise engineering drawings, ensuring alignment with project requirements and industry standards.
- • Led system-level risk assessments (FMEA) and mitigation planning for early-stage electromechanical prototypes, ensuring functional safety and regulatory alignment in high-usage environments.
- Design and fabrication of system enclosures, fixtures, jigs, and mechatronic assemblies using CAD software.

**Mechanical Design Engineer**

10/2017 - 10/2018

**Stretchlines Pvt Ltd Internship**

- Optimized existing designs, reducing production costs by 40% and enhancing overall performance by 30%.
- Experienced in designing and validating complex mechanical systems subject to vibration, temperature, and regulatory constraints—skills highly relevant to infrastructure and rail environments.
- Collaborated with cross-functional teams to ensure seamless integration of engineering designs into final products.

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**EDUCATION**

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- **Bachelor of Engineering (Hons):** Mechatronics Engineering **Deakin University - Waurn Ponds**

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**CERTIFICATIONS**

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- Geometric Dimensioning and Tolerancing, National Measurement Institute
- Mechanical Engineering Skills IC282, Chisolm Institute
- Skills Assessment Completed, Engineers Australia
- A3 PDCA Problem Solving, TXM Lean Experts

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**SOFTWARE & HARDWARE**

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|--------------|---------------|
| • SOLIDWORKS | • ARDUINO     |
| • FUSION 360 | • RASBERRY PI |
| • ALTium     | • STM 32      |

## REFERENCES

### ← Recommendations



Received

Given

Pending



**Natasha Li** · 1st



Manufacturing Operations Manager Consumables at Planet Innovation

April 28, 2025, Natasha managed Yemal directly

All LinkedIn members

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I thoroughly enjoy working with Yemal, he carries great energy and enthusiasm. Any new challenge he is willing to learn and apply himself, developing new processes and systematic ways to solve problems. Working alongside Yemal, we have had many projects to release together while navigating new ERP/QMS systems to execute engineering change management for production deployment and CAPA closures. Even while challenging last minute engineering changes would come, he always finds a way to support the deadline with a great attitude. A great team member to have. I would have no hesitation to recommend him into any new and challenging roles to advance his career.



**Ben Carlos** · 1st



Team Manager, Senior Mechanical Designer at Planet Innovation | MIEAust NER

April 9, 2025, Ben managed Yemal directly

All LinkedIn members

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Yemal is an enthusiastic young engineer with a nice range of skills. He has the ability to do hands on work with typical workshop equipment and tools, is comfortable in manufacturing environments (inc. clean rooms) can design in Solidworks as well as having knowledge of erp systems and other business systems. Further to that Yemal is a great guy with a good attitude who never lets stress show.



**Vajira Attanayake** · 1st



DevOps engineer || love to work on hard problems

April 9, 2025, Vajira and Yemal studied together

All LinkedIn members

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I've had the pleasure of working with Yemal, a highly skilled mechanical engineer who consistently delivers high-quality work. Their problem-solving ability, attention to detail, and commitment to excellence make them a valuable asset to any team. I highly recommend Yemal for any engineering role.



**Edgar Chan** · 1st



Senior Engineer: Medical and Scientific Device | Biotech | Renewables | Renewable Energy | Semiconductors

April 8, 2025, Edgar worked with Yemal but on different teams

All LinkedIn members

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Yemal was my colleague at Planet Innovation. He is hardworking and dependable. He knows his job well and is always willing to be involved in new projects.



**Andrew Stephen** · 1st



Business Applications Engineer at Planet Innovation

May 24, 2024, Andrew worked with Yemal on the same team

All LinkedIn members

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Yemal was a colleague of mine and we worked in the same team. During Yemal's training (some of which I performed), he was attentive and clearly engaged, shown by his ability to very quickly grasp concepts and processes and then immediately be able to find areas of improvement. An enthusiastic and very capable worker with multi-disciplinary skills who throws himself fully into everything he does, and always with a smile.

**Personal References Available Upon Request**