

Chenghao Hou

✉ houchenghao@hotmail.com ☎ 0430889610 📍 1/69 Blackburn Rd, Doncaster East VIC 3109

KEY SKILLS

- CAD/CAM
- Engineering drawing
- FEA analysis
- Sheet metal, HVAC, Structure design
- Analytical thinking
- Problem solving
- Quality management
- R&D

EDUCATION & TRAINING

2010 - 2012

The University of New South Wales, Australia

Master of Engineering Science in Mechanical Engineering

2005 - 2009

Jilin University

Bachelor of Engineering

Major: Mechanical design manufacture and Automation

PERSONAL SUMMARY

Proactive experienced mechanical engineer with proven knowledge of product design, computer aided engineering and development. Aiming to leverage my skills to successfully fill the role at your company.

PROFESSIONAL EXPERIENCE

Senior Product Engineer

Purple Line Pty Ltd Apr 2021 – to date

Key Responsibilities

- Product design.
- Research and product development.
- Quality management system improvement.
- Drawing and CAD improvement.
- Product compliance.
- Electrical system selection and design.
- Structure FEA analysis

Mechanical Design Engineer

Truflow Spray Booth (Aust) Pt Ltd, Apr 2019 - Nov 2020

Key Responsibilities

- Product development from concept to realization.
- Steel structure design.
- Product analysis including FEA, DFMA etc.
- Selection of mechanical and electrical device.
- Sheet metal CAM programming, Laser and TURRET.
- Preparing GA drawings and detail drawings for factory using SolidWorks and AutoCAD.
- Analysis of site drawing to suit ventilation system.
- Working with suppliers to integrate equipment to spray booth design.
- Identifying hazardous area of spray booth.
- Structure FEA analysis.
- Generate BOM's and installation document.
- Continues improvement of quality methods, update technical drawing and related document.

Mechatronic Engineer

CKAS Mechatronics Pty Ltd, Jan 2013 - Feb 2019

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INTERESTS

- Arduino
- Movie

MEMBERSHIPS

- Member of the Institution of Engineers Australia (Professional)

LANGUAGE

- CANTONESE
- MANDARIN

Key Responsibilities

- Mechanical design and detail drawing.
- Electrical circuit design.
- 3D modelling of Electronic device using Solidworks.
- Electrical machinery assembly.
- Selection and ordering of mechanical and electrical device.
- Simulator installation and training.
- Prototype design building and testing.
- Test and debug electric machine and electronic device.
- Inventory management.
- Assembly procedure document.
- Virtual 3D art development using UE4 and 3ds Max.

Achievements

- Build a 7 DOF motion system including mechanical fitting, cable wiring, circuit board soldering etc.
- Installation of Truck driving simulator for CNPC base in China.
- Jetpack 3D environment development including pilot module design, physic simulation and animation control etc.

More achievements upon request.

REFERENCES

References are available on request.