



Hongyu Lu

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58 Bennett St West Ryde

EDUCATION

University of Technology Sydney
Bachelor of Engineering (Honours)

Sept.2020-July2025 (expected)

Anticipated Coursework:

- Design and Innovation Fundamentals
- Distinction average (70%)
- Economics and Finance for Engineering Projects
- Engineering Research Preparation

Singapore Furen high school

Sept.2017-Oct.2019

- Student exchange program from China to Singapore.
- Achieve A grade in O Level exam.

Professional Experience

Industrial Trainee (420 Hours)

Perfect Engineering Pty Ltd

Apr 2024 - July 2024

- Conducted drafting, structural design, and compliance checks for various civil engineering projects.
- Utilized AutoCAD, performed load calculations using Australian Standards, and interpreted structural steel and concrete design drawings.
- Identified and resolved compliance issues, improving project approval timelines by 15%.
- Drafting retaining walls, designing steel beam structures, and preparing roadwork layouts.

Civil Engineering Intern

Various Civil Projects

July 2022 - Oct 2022

- Collected road tangent data and conducted materials analysis.
- Used theodolites for precise measurements and collaborated with site teams for on-ground execution.
- Delivered accurate site data that reduced material estimation errors by 10%.

Part-Time Team Member**Coles Produce Department****Oct 2021 - Dec 2021**

- Managed inventory and customer-facing operations.
 - Organized inventory handled fresh produce logistics, and processed stock returns.
 - Increased produce organization efficiency by 20%, contributing to reduced stock losses.
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Technical Skills

- Surveying and Design: Proficient in contouring, vertical curves, and traverse calculations.
 - Hydraulics Modelling: Experienced with SS Method in Excel and HEC-RAS for riverbank disaster prevention.
 - Software: AutoCAD, MS Office Suite, HEC-RAS.
 - Data Analysis: Advanced Excel calculations, flood frequency analysis.
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Key Projects**Structural Design and Analysis (Bachelor Project)****University of Technology Sydney****May 2021 - July 2021**

- Used AutoCAD to develop 17 structural designs, identifying 3 critical design flaws to prevent project delays.
 - Conducted 10 forensic investigations into damaged commercial buildings, improving repair strategies.
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Extracurricular Activities

- Co-organizer: Nationwide forum "China and the World," Shanghai (*July 2017*)
 - Trainee: Bloomberg Winter Training (*Feb 2017 - July 2017*)
 - Event Coordinator: High School Graduation Ceremony, Singapore (*Feb 2017*)
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Core Skills

- Communication: Exceptional verbal and written skills; proven ability to collaborate across diverse teams.
 - Leadership: Led project teams during internship, fostering accountability and team synergy.
 - Problem-solving: Analytical and detail-oriented approach to engineering challenges.
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Referees

Available upon request