

# Derek Hu

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## **PROFILE SUMMARY:**

A skilled bilingual assistant structural engineer with a solid educational background in both civil and structural engineering, as well as practical experience in Engineering Design and Construction. Proficient in steel and concrete structural design, utilization of AutoCAD and some kinds of structure design software, and structure modeling by using Revit with a qualification. An effective team player with excellent oral and written communication skills with other field engineers and sites.

## **EDUCATION**

### **Master of Professional Engineering (Civil Engineering) | July 2017 – June 2019**

Engineering and Information Technology School, University of Sydney, Australia

Relative courses: Professional Practice in Project Management, Engineering Design and Construction, Steel Structure, Concrete Structure

### **Academic Project**

- *Developed a live monitoring system for surface displacements during the final year.*

### **Bachelor of Engineering | September 2012 – June 2016**

School of Architecture and Civil Engineering, Taiyuan University of Technology, China

Relative courses: Descriptive Geometry and Engineering Drawing, Concrete Structure Course Design, Engineering Measuring Practice

## **INTERNSHIP EXPERIENCE**

### **China Architecture Design & Research Group - China**

Nov 2018 - Jan 2019

*Member of the Structural Team*

- Calculated steel structure for Blast-proof Partition Wall in Beijing Friendship Hotels.
- Assisted Architects/Project Managers in designing Hospitals affiliated with the Capital University of Medical Sciences.
- Contributed to structural evaluations and modifications for Shougang Hospital, ensuring compliance with design codes.

### **Wuhuan Engineering Co., Ltd - China**

Sep 2016 - Dec 2016

*Member of the Structural Team*

- Self-studied and mastered AutoCAD and SAP2000 for efficient structural design processes.
- Actively participated in the design team for an Electric Power Substation project, implementing innovative structural design solutions.

### **Shanxi Sijian Group Co. Ltd - China**

Jun 2015

*Intern (Construction Project Site Civil Engineer)*

- Supervised and inspected construction sites for the Poly International Plaza Tower 1 project in Beijing, ensuring adherence to safety and quality standards.
- Assisted the Construction Project Manager in coordinating and overseeing daily site activities.

**Hualu Engineering & Technology Co., Ltd - China**

Jul 2014 - Aug 2014

*Member of the Structural Team*

- Developed fundamental knowledge of AutoCAD functionalities and industry standards in civil engineering.
- Contributed to the verification process of Single-Storey Industrial Steel Structures based on given specifications.

**WORK EXPERIENCE****China Architecture Design & Research Group - China**

Sep 2020 – Jan 2023

*Member of the Structural Team*

- Peking University School of Stomatology Relocation  
Responsible for the structural design and construction drawing of external engineering parts and sewage treatment station. Participating in technical meetings and tracing the construction progress. Construction drafts drawing. Inspect the project site.
- Xining Center for Disease Control and Prevention and Inspection and Testing Capacity Improvement Project  
Responsible for the reinforcement work of all floor slabs and staircase construction drawings. Construction drafts drawing. Preparing the engineering instructions and relevant code illustrations. Coordinating with other professional engineers
- Beijing Center for Disease Prevent and Control Relocation Project  
Responsible for the slab reinforcement drawing, and sewage treatment station design. Construction drafts drawing.
- Relocation of the Second People's Hospital of Banan District, Chongqing  
Responsible for administration building structural preliminary design. Preparing project calculations and preliminary design documents. Preliminary design drafts drawing. Assisting other civil engineers in writing preliminary design evaluation reports.
- Three Gorges International Health City Three Gorges Medical Center Phase one Project  
Responsible for inpatient building construction drawing. Checking the geological report. Construction drafts drawing. Contacting site technician. Assisting civil engineers in preparing relevant documents about road conditions, site geological conditions, and other information on buildings.

**REFERENCES**

Good references will be provided upon request