

Quinn Mackenzie

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EXPERIENCE

MAS Concrete (Sydney, Australia)

Feb 2016 – Feb 2020

Iron Worker Foreman

Feb 2018 – Feb 2020

Iron Worker Team Lead

Aug 2016 – Feb 2018

Iron Worker

May 2016 – Aug 2016

Iron Worker Apprentice

Feb 2016 – May 2016

- Over 2 years, helped produce \$500,000 of revenue for MAS Concrete through supervising the installation of concrete reinforcement on 20+ sites.
- Established strong customer relations with 4 repeat clients through consistently exceeding client expectations in delivery time by providing innovative solutions to control project creep.
- Assisted the proposal writer win 5 RFP by reviewing the scope of works and providing labor hour estimates required for construction works by means of interpreting construction drawings.
- Conducted 60+ concrete reinforcement quality control inspections for MAS Concrete to ensure project deliverables were installed as per engineering specifications.
- Acted as the Health & Safety Representative for 3 sites facilitating weekly site inspections and ensuring site personals compliance towards occupation health and safety regulations.

TazzMan Handyman Service (Seattle, WA)

Sep 2012 – Dec 2015

Carpenter

Dec 2013 – Dec 2015

Carpenter Apprentice

Sep 2012 – Dec 2013

- Assisted in construction of structural carpentry works for single-family homes ranging from roofing frames, rafters, partitions, joists and stud work, decks, fences and doors on 30+ sites.
- Demonstrated initiative by taking lead on 2 critical projects when no team lead could be present.
- Informed supervisors on project status, work progress, required project materials and equipment.

EDUCATION

The University of Sydney

2017 – 2020

Bachelor of Engineering Honours – Civil Engineering, Major in Structures

Relevant Course Work: Project Time, Scope & Cost Management • Civil Engineering Design • Engineering Design and Construction • Concrete Structures I & II • Steel Structures • Structural Rehabilitation • Timber Design • Wind Engineering

Financing 60% of college expenses – working 20 to 30 hours per week during college

North Seattle Community College

2013 – 2015

Associate of Science – Chemistry

Financing 100% of college expenses – working 10 to 25 hours per week during college

UNIVERSITY PROJECTS

Structural Design of a 10-Story RC Building with Basement

- Designed RC floor slab using RAPT and design columns, retaining wall and raft footing in ETAB while verifying model with hand calculations in accordance with ASCE 319-19

Structural Design of a 30-story Steel Frame Building with RC Core and Two

- Designed a 30-story steel frame building using STAAD and verified the model using AISC manual.
- Designed CLT floors, Glulam beams and columns for a two-story superstructure as per AWC manual.

Bridge Condition Assessment

- Conducted a site inspection, material assessment, and proposed recommendations for strengthening/remediation of Iron Cove Bridge, in accordance with SEI/ASCE 11-99

Project Management

- Produced a project plan to refurbish an office floor into a fully functional dental laboratory. Key deliverables included work breakdown structure, specification sheet, milestone chart, cost breakdown structure, Gantt chart, organizational breakdown structure, and risk register.

TECHNICAL SKILLS

SOFTWARE

Revit • AutoCAD • RAPT • ETABS • STAAD • MS Office and Project • VBA • Microstran

LANGUAGES

Japanese (Native) • Mandarin (Advanced) • Spanish (Intermediate)