HOMING LEUNG

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SUMMARY

An MSc student with three years of project and internship experience in civil engineering (research, consultant, contractor, and client). I am also passionate about structural design, building information modeling (BIM), and programming.

EDUCATION

University of Washington (UW), Seattle, WA   Expected Graduation: Mar 2021

Master of Science in Civil Engineering – Structural Engineering and Mechanics (GPA: 3.82/4.00)

- Graded CM 420 – Temporary Structures, CESG 505 – Engineering Computing

The Hong Kong University of Science and Technology (HKUST), Hong Kong   Sept 2015 – Jun 2019

Bachelor of Engineering in Civil Engineering (First Class Honors)

- Dean's list at Spring 2016/2017 and Spring 2017/2018 and Fall 2018/2019
- 2019 School of Engineering Academic Excellence Awardee
- Study Abroad Program (National University of Singapore)

SKILLS

- **Computer skills**: AutoCAD, Revit, ETABS, SAP2000, Dynamo (Familiar), OpenSees, Abaqus, eQUEST (Beginner)
- **Programming Languages**: Python, MATLAB (Proficient), VBA, SQL (Familiar), JavaScript, HTML, CSS (Beginner)

INTERNSHIP EXPERIENCE

Intern (Client), Drainage Services Department, Hong Kong   Jul 2020 – Aug 2020

- Reviewed and commented on consultant and contractor structural design report submissions of 4 reinforced concrete and structural steel raised working platform projects
- Prepared quotations and task orders with cost and schedule estimation for 2 sewage pumping station projects

Intern (Contractor), Shui On Construction Company Limited, Hong Kong   Jun 2019 – Aug 2019

- Coordinated between 2 departments to perform design checking of column and wall reinforced concrete drawings
- Worked with a team of structural engineers on temporary work design (passenger hoists access platform and refuse chute) with excel calculations, material selection, and section drawings
- Carried out site inspection with foremen regularly to ensure the reinforcement fixing was in accordance with the drawings

Intern (Consultant), Black & Veatch Hong Kong Limited, Hong Kong   Dec 2017 – Jan 2018

- Co-wrote 4 reports (Preliminary Design Report, Design Memorandum, Public Engagement Plan, Risk Management Plan), 1 contract document drafting (New Engineering Contract), and 1 specification amendment (BEAM Plus New Buildings)
- Prepared plan and section drawings for a 2-story greywater treatment plant in AutoCAD

PROJECT EXPERIENCE

Research Assistant, HKUST, Hong Kong   Jun 2019 – Dec 2019

BIM-based Rebar Design Optimization for Reinforced Concrete Building Structures

- Developed parametric models for rebar modeling in Revit and built Dynamo nodes to reduce modeling time to within 1 minute
- Implemented steel rebar clash detections in Navisworks

Final Year Research Project, HKUST, Hong Kong   Sept 2018 – Jun 2019

BIM-based Parametric Modeling and Energy Performance-based Design of High-rise Buildings

- Developed parametric models in Revit and performed energy simulations in eQUEST to optimize the commercial building design with a 60% cooling electricity reduction
- Built Deep Neural Network (DNN) models to predict Air Change Rate (ACH) in residential buildings with a 90% accuracy

ADDITIONAL EXPERIENCE

Volunteer Tutor, Principal Chan Free Tutorial World, Hong Kong   Oct 2018 – Aug 2019

- Taught English and Mathematics to a high school student with Dyslexia

Intern (Job Coach), New Life Psychiatric Rehabilitation Association, Hong Kong   Jun 2017 – Jul 2017

- Trained and worked with a group of 10 ex-mentally ill patients in new job skills for operating government facilities (cleaning and customer service to 400+ customers a day)

Mentor (Engineering Peer Mentoring Program), HKUST, Hong Kong   Jul 2016 – Aug 2017

- Led a team of six to organize activities for over 100 first-year engineering school students
- Held regular consultations to provide advice for over 20 students on their future academic plan