

Josh Yuan

Environmental Engineering

Personal Info

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LinkedIn

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Soft Skills

Communication



Time Management



Independence



Hard Skills

AutoCAD



Civil 3D



eQuest



ArcMap



HEC-RAS



Excel



MATLAB



EPANET



Summary of Qualification

- 1-year experience in contract and construction site management
- Possess a strong knowledge of building science and building structure analysis
- Experience in transportation engineering with a focus on snow and ice control
- Extensive hydrology and floodplain management experience
- Practical experience in 1D and 2D hydraulic modelling for municipal stormwater management projects

Education

Bachelor of Applied Science, Environmental Engineering, Honours Co-op
University of Waterloo, ON, 2014- 2019

Water Resources Option, Management Sciences Option

Professional Experience

Water Resources Engineering Intern, AECOM

Summer 2018

- Performed floodplain mapping and hydrology/ hydraulic calculations to assess the feasibility of culverts and bridges along railway corridors
- Updated existing HEC-RAS models in accordance with real-life conditions and determined corresponding flood return periods based on survey data
- Prepared technical engineering reports for municipal stormwater management and highway infrastructure rehabilitation projects under time pressure
- Monitored sediment removal for Stormwater management facility

Senior Construction Inspector, WSP

Fall 2017

- Oversaw 3 construction projects including 2-storey building construction, HVAC system upgrade and diesel tank removal at TTC facilities
- Inspected contractor's daily activities, tracking the progress by comparing with look ahead schedules and addressed concerns during progress meetings
- Communicated effectively when coordinating with contractors and site superintendent regarding contract submittals

Construction/ Service Contract Assistant, TTC Summer 2016 & Winter 2017

- Implemented TTC's Discharged Water Quality Program for waste management section by analyzing 2-year oil interceptor and catch basin maintenance data
- Conducted price analysis and contractor performance evaluation for renewing 20 different service contracts under tight schedules
- Managed contractor database with advanced knowledge in Microsoft Access

Transportation Research Assistant, GO Transit

Winter 2015

- Reduced deicing cost and improved salt application rate by conducting over 100 field surveys with comprehensive data analysis at GO Transit railway platforms
- Strong communication skills proven through liaising and negotiating with site contractor for optimizing winter maintenance strategies

Award

Work Term Report Runner Up, University of Waterloo

2017 & 2018

2nd place award in engineering report writing among all students in the Department