

Donald Isaac Grimmer

Civil Engineering Student • Project Coordinator
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Experience

Hall Group of Companies - Vancouver Sand & Gravel Project Coordinator Intern

Coquitlam, BC
May 2024 – August 2025

- Coordinated the loading of 6000 tonne barges to capacity for material being sent out for disposal-at-sea (DAS) whilst coordinating truck traffic to optimize performance under different loading conditions.
- Procured an active wastewater treatment system to treat turbidity in dust suppression runoff to the Erosion and Sediment Control Plan (ESC) compliance limits before discharging into the Fraser River.
- Implemented the integration of automated reporting using PowerBI through an existing SQL server to aid in the access to information for the management team.
- Ensured compliance of equipment operators for barge offloading at Woodfibre LNG.
- Created an Inspection Test Plan (ITP) for the quality assurance of aggregates to CSA and MMCD-type specifications.
- Verified quantities of material to be sent for land disposal by barge and review of engineering documents for the disposal site.
- Performed purchase order validation and invoice reconciliation to ensure cost-code accuracy.
- Served as a point-of-contact for management and field crew to respond to technical issues that arose.
- Assisted the offloading of gravel barges through the operation of heavy mobile equipment and verification of quality checks in preparation of barge departure.

Education

University of British Columbia - Okanagan Bachelor of Applied Science - Civil Engineering

Kelowna, BC
Expected Completion: December 2025

- Design process of reinforced concrete members such as beam, slabs, and walls.
- Impact of aggregates properties on asphalt and ready-mix concrete designs for differing use cases.
- Performing field surveying and discerning error sources.
- Technical Projects:
 - Engineering Capstone Project: Optimization and design of a ATV-mounted sterile insect release device to improve operator usability and safety while improving on key functionalities to assist in a pesticide-free method of curbing codling moth population growth.
 - Applications of Engineering Design: Optimizing machine learning algorithms for self driving RC car with implementation of a lane guidance system.
 - Engineering Drawing and CAD/CAM: Development of 3D printed cable organizer prototype using iterative design process in Solidworks.
 - Reliability and Risk Analysis for Civil Engineering: Reliability analysis utilizing failure rate functions; Workplace Risk Assessment using FMEA for a TBM.

Leadership & Activities

2024 Pender Islands' Fall Fair Volunteer Event Coordinator

Pender Island, BC
May 2024 - August 2024

- Organized a temporary self-parking lot to help alleviate parking concerns for the event.
- Coordinated volunteers for setup days, event day, and take-down.
- Served as a point of contact for up to 50 volunteers and other event coordinators.

Skills

Technical: Microsoft Excel, PowerBI, Command Alkon Apex, HeavyJob (HCSS), Python, MATLAB, ArcGIS