

Donald Isaac Grimmer

Civil Engineering Student • Project Coordinator
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Profile

- Currently studying Civil Engineering at UBC-O's School of Engineering.
- Special interests in infrastructure & transportation design, business development strategies in engineering, infrastructure & disaster management
- Interested in all things technology, agriculture infrastructure, community development.

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.

Pender Island Farmers' Institute Farmers' Market Manager

Pender Island, BC
April 2018 – August 2025

- Used CAD software to plan weekly layout for the farmers' market.
- Effectively communicated with relevant stakeholders such as market vendors, board members, facilities staff, and the public.
- Oversee that vendors and market adhere to BCAFM and BCCDC guidelines.
- Streamlined recurring processes such as collection of market dues and receipts by using Square as a CRM that drastically increased labour productivity for the tasks.
- Implemented POS and product catalog systems for cooperative style secondary market.
- Performing inventory checks of equipment assets and retail goods to plan maintenance and minimize shrinkage.

Farmers' Market Setup Coordinator

April 2015 – August 2017

- Provided feedback that assisted in the transition to lightweight plastic tables from aging wooden tables that improved labour productivity and increased asset storage capacity.
- Assumed role and responsibilities of the Market Manager in their absence, such as collection of market dues, manual receipt writing, and confirming future attendance of vendors.

Gulf Excavating LTD.
Equipment Operator/Labourer

Pender Island, BC
June 2017 - August 2023

- Performed routine maintenance on vital equipment systems to minimize downtime.
- Batched ready-mix concrete to specified mix designs.
- Operated excavators up to 20 tons, wheel loaders, aftermarket hydraulic attachments.

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

Pender Islands' Fall Fair
Volunteer Event Coordinator

Pender Island, BC
August 2019, 2023, 2024, 2025

- 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, QGIS