## Donald Isaac Grimmer

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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
Projects	

#### Design Problem of Wastewater Coagulation & Flocculation Treatment System

- Goal of replacing existing semi-passive treatment system that used chitosan socks and no sand media filter
- Jar tests of chemicals from different water management contractors and a chemical supply company.
- Chosen solution is a two-component lease (treatment system and settling tank lease with a maintenance contract) from Company A and chemical supply from Company B.
- Targeted dosage rates of 50ppm each for the coagulant and flocculant at  $\$0.30/m^3$
- Projected annual recurring costs of chosen configuration 12% lower than Company C's and 50% lower than Company D's EaaS solutions.
- Costs could be further lowered by using dry flocculant and mixing on-site, but would require further employee training and equipment acquisition.

### Optimization and Design of an ATV-mounted Sterile Insect Release Device

- Tasked with improving existing system that had issues in providing a consistent feed rate, non-existent impulse control, operator health concerns, and improvised mounting system.
- Chosen solution delivered on all major deliverables and beyond with improved electronics with lower power draw, discrete feed mechanism, and improved user interface experience in an all new enclosure.

#### Lane Guidance Model for RC Car using Machine Learning

• Optimizing machine learning algorithms for self driving RC car with implementation of a lane guidance system.

system.		
	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.

Skille	
Skills _	

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