

Jeremy Karkanis

Civil Engineer in Training

JeremyKarkanis.ca

(403) 499-9991

Jeremy.Karkanis@outlook.com

linkedin.com/in/jeremy-karkanis

TECHNICAL SKILLS

Skills and Tools

- R Programming
- QGIS
- ESRI ArcGIS
- Microsoft Office Suite
- Python
- SQL

Certifications

- AB Class 5 Driver's License
- APEGA Engineer in Training

EDUCATION

University of British Columbia

September 2018 – May 2023

Bachelor of Applied Science – Civil Engineering

TECHNICAL EXPERIENCE

The University of British Columbia Department of Civil Engineering Vancouver, BC

April 2023 – June 2023

Position: Undergraduate Academic Assistant

- Completed over 100 hours of directed research in operation science and water resource engineering
- Optimized hydroelectric dam operation with mathematical modelling language AMPL
- Tested model parameters, visualized results using R and made recommendations for future operation

SRK Consulting (Canada) Inc. Vancouver, BC

January 2022 – August 2022

Position: Surface Water Co-op Student

- Provided engineering support to hydrologists and water resource engineers in the Canada Geo Environmental group
- Wrote reports and memorandums to support hydrology and climate change analysis for worldwide mine sites
- Leveraged R to develop water quality timeseries graphics, handle climate change datasets and develop various geospatial visualisations
- Prepared hydraulic calculations, GIS analysis and various memorandums in support of water management plans

Broadway Subway Project Corporation (Acciona-Ghella JV) Vancouver, BC

May 2021 – September 2021

Position: Co-op Student – Design Team

- Provided managerial support to the Systems Design team of the SkyTrain Millennium Line Broadway Extension
- Collaborated with the Commissioning Director to complete the Systems Commissioning Plan, including development of body text, as well as ancillary flow charts and Gantt Charts
- Estimated costs for 9 multi-million dollar systems change requests regarding CCTV, fibre optics, SCADA etc.

GUNN Consultants Inc. Vancouver, BC

June 2020 – December 2020

Position: Technical Delivery Coordinator

- Contributed to the success of the Elevator Modernization and Inspection & Report departments
- Assisted in project management as Prime Consultant of over 75 elevator modernizations and hundreds of reports
- Drafted Construction Documents such as Elevator & Electrical Specifications, Letters of Recommendation, CCDC 2 Contracts, Shop Drawing Reviews etc.
- Collected field information on site visits of varying scope and drafted subsequent reports

PERSONAL PROJECTS

Jogging/Cycling GIS Heat Map (RStudio)

Ongoing

- Tracked GPS coordinate data using mobile running tracker app "Map my Run"
- Downloaded .tcx files and parsed the data to a time series data frame with longitude, latitude and altitude parameters.
- Performed kernel density estimations to generate and plot a raster 'heat map' image in an HTML leaflet.

Portfolio Website [<https://jeremykarkanis.ca/>] (HTML, JavaScript, Krita Animation)

July 2022

- Coded several mobile-responsive web pages with HTML and Bootstrap v5.0 from scratch
- Animated rubber hose style cartoons to supplement key web pages
- Leveraged JavaScript to develop interactive dropdown menus and navigation menus

INTERESTS & HOBBIES

- Group hiking in western Canada. Notable Hikes: Crown Mountain, Howe Sound Crest Trail, Ha Ling Peak
- Cycling and Jogging including development of a heat map of routes with R programming
- Completing fun and diverse personal projects. Highlights include picking blackberries to ferment and bottle wine, and building a potato cannon from PVC tubing