TRISTAN FORD, P.ENG, PMP

Transportation Optimization Specialist

tristan4d · in/tristan-f-07087813b/ · Victoria, BC

EXPERIENCE

Transit Planner
BC Transit

📅 August 2021 – August 2023   📍 Victoria, BC

- Operational service planning and optimization for the Victoria Regional Transit System
- Transportation modeling and forecasting to predict ridership and GHG emissions
- Planning and management of the Salt Spring Island transportation network

Signalling & Train Control EIT
SNC-Lavalin

📅 May 2018 – August 2021   📍 Vancouver, BC

- Planned, budgeted and coordinated transportation infrastructure projects ranging from $0.5M - $3.0M
- Designed and implemented transportation engineering projects including communication systems and signalling upgrades
- Consulted and performed feasibility studies for Canadian transportation authorities such as TransLink

Research Intern
University of Wurzburg

📅 May 2017 – December 2017   📍 Wurzburg, Bavaria

- Designed and successfully interfaced a custom molecular beam setup for multidimensional spectroscopy experiments
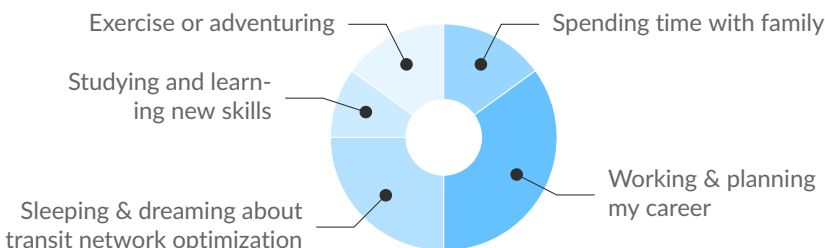- Aided doctoral students with physical chemistry research with a focus on optical instruments

Technician
General Fusion

📅 January 2016 – April 2016   📍 Burnaby, BC

- Constructed, maintained and aided in testing of the latest plasma injector model
- Increased efficiency in the machine assembly process by creating assembly books outlining the procedures and parts to be used

A DAY OF MY LIFE

- Exercise or adventuring
- Spending time with family
- Studying and learning new skills
- Sleeping & dreaming about transit network optimization
- Working & planning my career

ASSOCIATIONS

Professional Engineer
Engineers and Geoscientists British Columbia

📅 December 2023 – Ongoing

Transportation Team
UBC Smart City

📅 September 2023 – Ongoing

Project Management Professional
Project Management Institute

📅 December 2020 – Ongoing

MOST PROUD OF

🚌 **Data-driven optimization** of transit service in the Victoria Regional Transit System including various tools and dashboards to grow ridership despite resource challenges

🔀 **ML ridership model** developed in under two months to help my company better understand the potential impacts of Covid-19 on transit

STRENGTHS

Public Speaking · Machine Learning · Algorithms · Project Management · Transportation · Leadership

Math & Statistics · Git · Python · R · Julia · React · C++ · VBA · SQL

LANGUAGES

English ●●●●●
French ●●●●○

EDUCATION

BASc in Engineering Physics
University of British Columbia

📅 September 2014 – April 2019

MASc in Transportation Engineering
University of British Columbia

📅 September 2023 – Ongoing