

TRISTAN FORD, P.ENG, PMP

Machine Learning and Optimization Specialist

 tristan4d  tristan-f-07087813b  Victoria, BC



EXPERIENCE

Transit Planner

BC Transit

 August 2021 – August 2023  Victoria, BC

- Operational optimizations via transit data analytics
- Machine learning modeling to predict ridership and GHG emissions
- Data management and visualizations in PowerBI

Signalling & Train Control EIT

SNC-Lavalin

 May 2018 – August 2021  Vancouver, BC

- MATLAB modelling for Light Rail Transit signalling testing
- 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

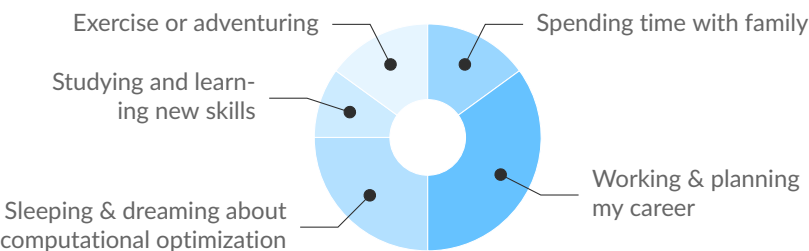
Technician

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



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