MARK EDWARDSON

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EDUCATION

University of Victoria – Victoria, BC   [Sept. 2020 – Present]

Bachelor of Engineering
Third Year Student (Term 3A)
GPA: 8.42/9

SKILLS & ABILITIES

Proficient in using Python and GIS Software for Engineering and Planning Applications

At BC Transit, I wrote a ridership forecast model in Python that used multiple linear regressions to model past variation in route- and system-level transit ridership in Victoria and predict future trends in ridership.

Competent at using ArcGIS to analyze and visualize geographic data and make recommendations about land use and site location. As a project for my Geomatics Engineering class, my team used BC Transit's open GIS bus route data in combination with Statistics Canada population data to study the current capacity of Victoria's bus routes and identify route candidates for LRT implementation.

Talented at learning new CAD/BIM software

Took 4 drafting classes in high school, becoming highly proficient in Vectorworks, an architectural BIM drafting program, and competent in Fusion 360, a mechanical/3D printing drafting program. Became a Teacher Assistant for the class to teach my skills to others. Took an Introductory Drafting course to gain experience with AutoCad, Revit, and Civil3D.

Effective Team Member in Deadline-Driven Environments

At PCL, I led the submission of three project estimates, each with deadlines of 2-3 weeks. Coordinated with my supervisor, operations team, and sub-contractors to set milestones, resolve issues, and solicit prospective sub-contractors. Worked closely with other estimators during closing day to evaluate incoming sub-contractor quotes to ensure the tender submission contained a complete scope while remaining competitive. PCL was awarded 3 of the 4 projects I worked on.

Strong Communication Skills and Experience with Word Processing and Spreadsheets

While at BC Transit, I used Excel Macros to build automated tools that assessed bus route performance and suggest candidates for investment or reduction in service.

Currently the president of the UVic Debate Society and compete in university-level debate tournaments. Winning requires quick thinking, strong logic, and an understanding of the issues.

WORK EXPERIENCE

Estimating Student, *PCL Construction Management* (Calgary) [September 2022 – December 2022]

- Led the creation of estimates and tender bid submissions with minimal supervision. Projects had values of $600,000 to $1,200,000 and PCL was awarded three of these projects.
- Performed estimating tasks such as reviewing drawings, performing quantity takeoffs, preparing estimate books, coordinating with trade subcontractors, and participated in bid closings
- Compiling historical unit price data for company dashboards and applying programing skills to automate data collection

Transit Planning Co-op Student, *BC Transit* [January 2022 – April 2022]

- Used Excel macros to develop tools that analyzed bus route performance and suggested candidates for service investment/reduction
- Programmed a ridership forecasting model in Python that analyzed changes in COVID cases, economic activity, and service levels during the pandemic to forecast future transit ridership
- Wrote project reports, service change notices, and responses to development referrals

Junior Technician, *Bradley Shuya Architect Inc.* [June – September 2018; June - September 2019]

- Assisted in drafting architectural drawings for firm clients
- Created promotional material for prospective clients
- Helped manage daily company administration
- Wrote documents such as Request for Qualifications and other reports

Volunteer, *Habitat for Humanity Victoria* [Oct. 2019 – Sept. 2020]

- Volunteered 4 hours a week at Habitat for Humanity Restore, a charity that raises money for affordable housing. My work involved sorting, cleaning, packaging, and pricing incoming goods that are donated to be sold, as well as general retail jobs such as helping customers.

RECENT PROJECTS

- As a project for my Geomatics Engineering class, my team used BC Transit's open GIS bus route data in combination with StatsCan population data to study the current capacity of Victoria's bus routes and identify route candidates for LRT implementation.
- Currently working on a 3D-printed model of the Johnson Street Bridge in Victoria. Project involves analyzing drawings, developing a 3D CAD model, and printing/assembling parts.

AWARDS

- University of Victoria Faculty of Engineering Dean's Entrance Award (2020)
- T.S. Mcpherson Renewable Scholarship Award ($30,000) (2020)
- School District Authority Award for Applied Design (Drafting) Skills (2020)