

Eamon Flanagan Murphy

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Academic Background

University of Victoria

Bachelor of Engineering Civil Engineering

September 2013 – August 2018
Victoria, British Columbia, Canada

Technical and Specialized Skills

Civil Engineering

- AutoCAD 2014, AutoCAD Civil 3D, Solidworks (2014), ArcGIS, Quantum GIS, Global Mapper, Google Earth Pro, SketchUp, SYNCRO, AutoCAD Autoturn
- GIS experience including producing maps of BC and the Yukon with embedded data of First Nations, Civic renumeration of a First Nations community and surveying experience.
- Academic experience designing a net-zero energy condominium. Deliverables included; architectural 3D renderings, economic feasibility study, building envelope design, LEED certification, simple steel frame structural analysis, construction estimates, and design that encourages alternative modes of transportation.
- Academic experience redesigning a collector intersection with collaboration from the District of Saanich, the local municipality. Redeveloped the intersection to include separated bike lanes, semi-actuated traffic lights, and slip lanes. Deliverables included: AutoCAD drawings, traffic impact analysis from SYNCHRO and a project cost estimate.

Software

Productivity: Microsoft Office Suite 2007 – Office 365 (Word, Excel, PowerPoint, Outlook), Microsoft Project Professional 2013.

Graphics: Adobe Photoshop, Adobe Indesign, Adobe Lightroom CS3 – CC, Corel Draw.

Programming: MATLAB, R, C, HTML 5, CSS, Windows batch files, Bash Scripts, various Linux OS's including embedded systems and server command line interfaces, extensive expertise using Windows XP - 10, and MacOS.

Certifications

WHMIS

Class 5 (Full) B.C. Drivers Licence

First Aid and Canadian Red Cross CPR/AED Level C
Experience in handling Radioactive Materials

Foreign Languages

Proficient in French (Completed an exchange in France sponsored by Rotary International 2012- 2013)

Limited working proficiency in Spanish (Intensive 3-week immersion course taken in Nicaragua)

Transferable Skills

Qualifications: Open-minded and able to think creatively stemming from experiences in traveling as well as having a natural curiosity for many different fields. Self-motivated problem solver, and able to work independently with no or minimal supervision. Highly experienced with cross-cultural environments including Canadian First Nations and able to produce technical designs with respect to social environments.

Communication: I communicate ideas efficiently and can express myself and understand non-verbal cues easily. With Indigenous & Northern Affairs Canada I was able to hold weekly conference calls and attend meetings to liaise communication between First Nation, Engineering Firms, Contractors and Indigenous & Northern Affairs.

Leadership: Highly qualified project manager with experiences in a leadership role in the YMCA, Rotary International, Canadian Society for Civil Engineers and University of Victoria project work.

Work Experience

Slickspaces Technologies Inc

Engineering Assistant

September – December 2017

Vancouver, British Columbia, Canada

- Extensive work with IOT connected devices ranging from thermostats to smart locks.
- Developed in PHP using the Laravel 5.5 framework and produced front-end designs using HTML, CSS, and Vue.js
- Gained business expertise related to presenting business cases, pitching to investors, and an understanding of business economics.

Ministry of Community, Sport, and Cultural Development

Infrastructure Grant Analyst

January – April 2017

Victoria, British Columbia, Canada

- Created an in-depth review of the Clean Water Wastewater grant assessment process. Analyzed proponent responses with an emphasis on visual analytics using a self-made macro within Excel.
- Directed discussions with data driven suggestions on incremental improvements to grant applications.
- Networked with clients across the province and reviewed progress reports ensuring that funded projects were set to be completed on-time.
- Gained a in depth understanding of municipal grants with joint provincial and federal funding.

Indigenous & Northern Affairs Canada

Capital Project Engineering Student

May – August 2016

Whitehorse, Yukon, Canada

- Worked closely with First Nations in the provision of safe and reliable potable water, and wastewater treatment. Experience in project management with projects in: road resurfacing, housing stock development, septic field replacements, recycling and garbage collection, rip rap installation, awarding contracts, and reviewing and providing comments on technical designs of proposed water facilities.
- Completed independently; a GIS map for civic renumeration in a First Nation community, producing GIS maps of First Nation locations in BC and the Yukon, Data analysis of water and wastewater inspection reports.

Extracurricular Activities

Hiking: Completed various multiday backpacking trips including, The West Coast trail, Juan de Fuca trail, many hikes in the Rocky Mountains. Camino of Santiago de Compostela (Spain), The Grand Canyon, The Chilkoot Trail, Tombstone Territorial Park, Kluane National Park and Reserve (Yukon)

Traveling: Explored many different countries : Portugal, Spain, France, Monaco, Italy, Greece, Hungary, Slovakia, The Czech Republic, Austria, Germany, Belgium, Netherlands, Switzerland, England, Ireland, Panama, Costa Rica, Bolivia, Mexico, Nicaragua, El Salvador, Belize, Aruba, Guatemala, The United States, Singapore, Indonesia, New Zealand as well extensive travel within Canada.

References

Laird McLaughlin

Ministry of Community, Sport, and Cultural Development

Infrastructure Resource Officer

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Indigenous and Northern Affairs Canada

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