

Wesley Bowley

Email: wesleyb@uvic.ca

Education

University of Victoria, Victoria BC. 2017-Present. MAsc. Student in Civil Engineering

University of Victoria, Victoria BC. 2011-2017. Bachelor of Civil Engineering.

Software/Computing Skills

MS Office (Word, Excel, PowerPoint)

Hot 2000

Revit

Open Studio

Programming (C, Java, Python, LabVIEW, Matlab)

Engineering Skills

Energy efficient building design and modeling

Green building design and sustainability

Various Hands on skills (Soldering , Blacksmithing, jewellery, metal and wood work)

Other skills

Driver's license

NLS-National Lifeguard Service(expired)

Standard First Aid CPR/AED Level C (expired)

Pleasure Craft License

Relevant Courses:

- Environmental Engineering
- Sustainable and Advanced Concrete Design
- Green Building Design
- Building and District Energy Simulation

Work Experience

September – December 2016 (coop Work Term, Full Time)

Independent Entrepreneurial work term

- Design a self sufficient off grid passive house using shipping containers as main structural element
- Design of all systems including PV, electric, rainwater harvesting and purification, septic
- Energy modeling using HOT2000 and cost analysis

February – April 2016 (coop Work Term, Full Time)

Private Contractor working for City of Colwood

- Analyze sewer flow data to calculate various parameters such as average dry weather flow, and inflow and infiltration.
- Compare population growth with growth of sewer flows
- Prepare reports on the analysis.

May – August 2015 (Coop Work Term, Full time)

Research Assistant, Sustainability Solutions Applied Physics Laboratory at UBC

- Assist design and prototype of experimental greenhouse insulation system
- Design, build apparatus for, and perform experiments
- Help solve problems and analyse experimental data

February – April 2014 (coop Work Term, full time)

Bridge Seismic Engineering Assistant, BC Ministry of Transportation and Infrastructure

- Assist seismic engineers in developing a new bridge seismic retrofit program
- Compile information and bridge drawings from a database into one location
- Scan Microfilms of bridge drawings
- Analyse bridge drawings to determine their seismic vulnerability

Projects

Best all-around beam in “The Big B” Reinforced Concrete Beam Competition (7 person group)

- Mix Design, Forming, Pouring
- Steel Reinforcement
- Load Predictions

Volunteer Work

July 15-24 2011 (full time for 10 day trip)

Bosun’s Mate aboard the *Pacific Grace*

- Maintenance of ship’s engines, hydraulics, and rigging.
- Refinishing Bright work (sanding, varnishing, patching, painting)
- Provide counselling, guidance, assistance and company to the 30 trainee’s aboard.
- Developed great communication skills and developed my knowledge and technical skills to do with the vessel and its operation.

September 2009-2013 (As often as time allowed)

Shipyard Volunteer

S.A.L.T.S. Heritage Shipyard

- Maintenance of organization’s tallships. This includes mechanical maintenance, sanding, varnishing, woodworking, as well as working on other projects around the shipyard.

Hobbies and Interests

Sailing, alternative energy systems and green design, blacksmithing, chainmaille, jewellery making, bush craft/outdoors, airsoft, Historical European Marital Arts (HEMA)