


JAY GUDSSON, EIT

 GUDSSON.GITHUB.IO

 : (604) 351 9761

 : GUDSSON@GMAIL.COM

SUMMARY

Engineer-In-Training with experience in structural restoration and asset management consulting for strata properties throughout the Lower Mainland. Also an accidental computer programmer who constantly improves systems to reduce friction in repetitive processes. I am looking for an opportunity to leverage my unique technical skills across a wider range of responsibilities.

WORK EXPERIENCE

BC Building Science New Westminster, BC

2019-Present

Project Engineer

- Design structural repair details for light-frame steel and wood-frame residential buildings.
- Perform field reviews of structural and envelope repair work for general conformance to design drawings.
- Ultimate Limit State and Serviceability Limit State design of framing upgrades and new secondary structural elements to meet BCBC2018 and VBL2019.
- Created, maintained, and deployed Word and Excel add-ins for document automation and company-specific functionality enhancements.

Sense Engineering North Vancouver, BC

2016-2018

Project Associate

- Prepared over thirty comprehensive Depreciation Reports to assist strata corporations in long-term planning for common property maintenance and replacement.
- Identified and documented construction deficiencies as part of new home warranty reviews at properties throughout the Lower Mainland.
- Developed repair specifications and provided construction review services for building envelope maintenance projects throughout Greater Vancouver.

Diamond Precast & Predl Systems Burnaby, BC


2015

Junior Estimator/Inside Sales

- Estimated costs of precast concrete systems in underground plumbing of commercial projects and in large municipal works throughout the Lower Mainland.
- Supervised on-site rehabilitation of company products to ensure alterations made to the prebench and Predl liner meet re-design specifications.
- Designed prebenched, sump, and overbuild manhole bases to meet MMCD Platinum (2009).
- Managed production schedules to meet build order of customer's projects.

JAY GUDSSON, EIT

 : GUDSSON.GITHUB.IO

 : (604) 351 9761

 : GUDSSON@GMAIL.COM

TECHNICAL SKILLS

MICROSOFT OFFICE:

- VBA coding to automate tasks
- API calls to control external applications
- Pivot tables and advanced formulas in Excel
- Custom field codes and advanced formatting in Word

MICROSOFT PROJECT:

- Task tracking, resource allocation and project budgeting
- Graphical report generation for concise project overviews

MODELLING AND ANALYSIS:

- Revit: BIM at LOD 400
- SAP2000: Finite element analysis for 3D structures
- AutoCAD: 2D modelling and basic layer management

COMPUTER PROGRAMMING:

- Experience creating executable programs in Python, Visual Basic, and C++
 - Dynamic web apps using Javascript and PHP frameworks
 - Git for version-control and file backup
-

EDUCATION

University of British Columbia

B.A.Sc. with Distinction – Civil Engineering

Cumulative GPA: 84.2%

2010 – 2014

TECHNICAL PROJECTS

ASCE 2014 Steel Bridge Competition Portland, OR & Akron, OH

Senior Member

2013 – 2014

Annual undergraduate civil engineering competition hosted by the American Society for Civil Engineers (ASCE). Tasked with designing and fabricating a steel structure to meet competition requirements while minimizing the competition's construction cost rating, which was a function of strength to weight ratio, construction time, crew size and architectural/presentation quality.

- Helped Identify innovative solutions to improve the efficiency and constructability of various bridge components including shear bolted connections, truss positioning, and construction planning.
- As a senior member, helped develop code to efficiently assess the response of numerous conceptual designs in SAP2000 by calling API functions in Excel.
- Team placed 27th out of 208 total entries despite a small team and modest budget.