

Kevin Spacey

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SUMMARY

Hardworking and reliable civil/structural engineering Master student seeking a fulfilling work position in Vancouver, British Columbia, that will contribute to future experience and overall passion for engineering design

TECHNICAL SKILLS

S-Frame
S-Steel
MathCAD
SAP2000

NonLin
SeismoSignal
SeismoMatch
TEDDS

Auto CAD
MS Excel
EZ-Frisk

TECHNICAL WORK EXPERIENCE

Layton Consulting Ltd.

January 2009 – August 2009

Design Technician

- Analysed structural curtain walls, vinyl windows, and glass guardrails with S-frame, TEDDS, and AutoCAD for various Canadian and American clients using ultimate limit states and serviceability limit states design; designed reinforcement to strengthen structural members, specified glazing thickness, and detailed connections, to resist vertical and lateral loading
- Analysed thermal properties and heat transfer for various window frame, glazing, and thermal break materials to determine energy efficiency and to ensure conformity with government's future energy regulations
- Performed on-site structural installation review of vinyl windows, glass guardrails, and curtain wall systems to determine compliance with engineered drawings
- Initiated and corresponded client projects with numerous window manufacturing companies in order to effectively engineer shop drawings

Bush, Bohlman & Partners

May 2008 – August 2008

Design Technician

- Conceptualized three dimensional models of a steel staircase and information kiosk structure for Vancouver International Airport upgrade using S-Frame/S-Steel; designed structural members using steel construction design handbook and steel principles to meet building codes
- Performed complete conditioning survey on old building space with multiple distinctive deficiencies; evaluated building health using visual and destructive testing; performed structural analysis and prepared rehabilitation report for building's owner with full recommendations on stabilization strategy
- Helped design the re-erection of an old historical piece of crane machinery under seismic loading using structural steel design notes provided by Andrew Metten; provided analysis and design for two separate crane foundation types, spread footing and pile cap; communicated results with geotechnical engineer
- Corresponded design ideas with architects; modeled designs with steel, concrete, aluminum, and timber using S-Frame according to Vancouver, National, and British Columbia Building Codes; performed code checks according to program outputs
- Estimated concrete volumes and performed column load take-downs for UBC-O projects
- Studied construction drawings and implemented site rebar inspections for client-projects to ensure compliance with structural engineered drawings

Stuart Olson Construction Inc.

May 2007 – December 2007

Project Assistant

- Collected quotes and estimates from various trades to price change orders required at the UBC Okanagan Fipke Centre
- Tracked requests for information from consultants, trades, and superintendents; logged actions into the computer and provided follow-up as required
- Developed and maintained positive relationships with clients, consultants, sub-trades, and suppliers while coordinating changes by phone, email, and in person on-site
- Prepared, processed, and documented all project communications using MS Word and Excel

EDUCATION

University of British Columbia – Vancouver

September 2010 – Current

Master of Engineering – Structural

University of British Columbia – Okanagan

Graduated April 2010

Bachelor of Engineering – Civil

TECHNICAL PROJECTS/COURSES

Graduate Courses

September 2010 – Current

- Completing several courses involving calculations of uniform hazard spectrums for specific sites using EZ-Frisk, matching spectral motions to site UHS using SeismoMatch and other SeismoSoft applications, analysing mid-rise conceptual structures with various design spectrums and time histories using SAP2000 and NonLin, and using MathCAD to professionally structure calculations for term projects

Structural Analysis of Concert Tour Set-Up

September 2009 – April 2010

- Provided structural analysis of typical concert system rigging and weight configurations for EagleWing Productions on the existing Prospera Place Events Centre in Kelowna
- Performed site visits, documented beam sizes/spans/material, and compiled structural capacity data compilation/vetting for analysis.
- Modeled trusses elements using SAP2000 to accurately devise maximum loading and chain cradle connection angles to ensure structural members were within design capacities
- Made recommendations on structure conditions and maximum vertical/lateral load configurations
- Acted as liaison with Greg Smith of Weiler Smith Bowers Consultants for the purpose of gathering structural drawings and details for EagleWing Productions

Undergraduate Lab Courses

September 2008 – April 2009

- Completed several labs involving concrete batch mixing, asphalt penetration testing, determination of soil properties, bending and shear stresses of concrete beams, turbulence and laminar pipe flow, surveying and building plan layout, and hydraulic conductivities for various granular soils using provided lab tools and machinery

ASSOCIATIONS

APEGBC – EIT

SEABC – Student Member

EERI – Student Member

ACI – Student Member

REFERENCES – *Available upon request*