

# JEFFREY RUSSELL

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## SKILLS

### TECHNICAL

- Structural Design
- Finite Element Analysis
- Cost Estimation
- Construction Planning
- Presentations

### ADVANCED

- AutoCAD
- SAP 2000
- Excel

### INTERMEDIATE

- ANSYS
- Python
- MATLAB
- Autodesk Inventor
- Solid Edge
- GeoStudio

## EDUCATION

### Queen's University

#### B.A.Sc. Civil Engineering

Kingston, Canada

Sept 2014 – Apr 2018

- Dean's Scholar
- Excellence Scholarship

### RELEVANT COURSES

- Structural Theory
- Structural Steel Design
- Computer Aided Design
- Reinforced Concrete
- Infrastructure Rehabilitation
- Numerical Methods
- Engineering Design & Practice

References for all experience available upon request.

Visit [jeffreyrussell.ca](http://jeffreyrussell.ca) to learn more about me.

## WORK EXPERIENCE

SUMMER 2017  
VANCOUVER, BC

### PETER KIEWIT INFRASTRUCTURE CO. | Construction Management Intern

- Assigned to the Westridge Marine Terminal, as part of the Trans Mountain Pipeline Expansion Project
- Managed all onshore concrete foundations (\$7M and 45,000 man hours)
- Initiated, developed, and fulfilled a plan to replace CIP Concrete with Precast, saving 7,000 man hours
- Tripled the construction schedule detail, resulting in minimized errors & delays
- Formally presented my results and recommendations to project managers
- **Skills Developed:** Cost Estimating, Construction Planning & Scheduling, Procurement, Presentations

SUMMER 2016  
VANCOUVER, BC

### KLOHN CRIPPEN BERGER LTD. | Structural Engineering Intern

- Completed 26 geometry checks on structural drawings, catching calculation errors early in the design process
- Derived equations from the Concrete and Steel Design Handbooks for the deflection of various complex beams, accelerating engineer's calculations of bridge girder properties such as screed elevations
- **Skills Developed:** Structural Design, AutoCAD, Use of Design Handbooks

SUMMER 2015  
BURNABY, BC

### EXP SERVICES INC. | Geotechnical Engineering Intern

- Supervised a paving crew, providing recommendations for quality control and submitting progress reports
- Compiled soil quality reports from borehole and other testing results, sharing to clients with no missed deadlines
- **Skills Developed:** Soil & Concrete Testing, Site Supervision

## EXTRACURRICULAR

2016 – PRESENT

### QUEEN'S CONCRETE TOBOGGAN DESIGN TEAM | Head of Finance

- Managing a \$30k+ team budget, and directly supervising five assistants
- Committing 10+ hours per week and developing my time management skills
- Previously: Head of Construction, where I facilitated the design and build of a 200 m<sup>2</sup> wooden technical display

2017 – PRESENT

### CLARK HALL PUB | Bartender

- Part time job during the school term, balancing work & school commitments

## RELEVANT SCHOOL PROJECTS

2017 – PRESENT

### UNDERGROUND PARKING GARAGE REHABILITATION

- Currently the Team Lead for the investigation, planning, and remediation of a deteriorating parking garage for Edison Engineers Inc.

2015 – 2016

### TRUSS BRIDGE DESIGN & CAD MODELLING

- Took initiative to manage a team of four through the design, modelling, and construction of an 8-ft long bridge – ranked top 3 out of 30 teams