

# Joshua Deans

Computer Science

## SKILLS

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### Programming

- Python
- C
- Matlab

### Software/IDEs

- Linux
- PyCharm
- Visual Studio
- Microsoft Office

### Communication Skills

- Public Speaking
- Technical Reports
- Presentations
- Memos
- E-mails

## CIVIL CO-OP WORK EXPERIENCE

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### Kiewit

Jan 2015 – Aug 2015

#### *Port Mann/Highway 1 Engineer Intern*

- Coordinated and optimized traffic closures daily for the night shift traffic crew through collaboration and compromise with various conflicting parties, resulting in efficient operation throughout the project.
- Planned the completion of remaining project punchlist tasks, resulting in upwards of one hundred tasks being completed.
- Facilitated the sale of salvage items on the project, resulting in tens of thousands of dollars being returned to the project.
- Led purchasing of signs, traffic equipment, safety equipment, structural materials, and other required items for the entire Onshore team.

### BC Hydro

May 2013 – Dec 2013

#### *Public Safety and Project Support Co-op*

- Completed seven Public Safety Management Plans, providing guidelines for BC Hydro generation facilities to ensure that they comply with public safety rules.
- Supported in Public Safety Education operations, relating to teaching public safety to firefighters, paramedics, police and trades workers.
- Provided project support for public safety projects, ensuring that public safety standards were met.

## CIVIL TECHNICAL PROJECTS

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### UBC South Campus Stormwater Management Plan

Sept 2015 – Apr 2016

- Researched precedent examples of stormwater management to assist in producing potential solutions
- Produced a preliminary design report to provide further details about the chosen solution, including technical, economic, societal, regulatory, cost and schedule analyses.
- Presented a conceptual design to the client and professors, showing three potential solutions, and the preferred solution

### Engineering Student Center BIM Design Project

Jan 2016 – Apr 2016

- Developed conceptual and detailed designs for a theoretical building using Autodesk Revit.
- Scheduled the construction of said building using Microsoft Project.
- Simulated the construction process of the building using a 4D simulation from Autodesk Navisworks.
- Estimated costs associated with the building using Sigma Estimating software

### **Grandview Corridor Optimization**

**Sept 2015 – Dec 2015**

- Identified traffic issues leading to congestion on the Grandview Highway corridor between Boundary and Nanaimo
- Conducted traffic study to determine traffic volume counts at certain intersections along the corridor
- Modelled the current conditions and the proposed solutions in the corridor using Synchro
- Applied data from Synchro simulations to calculate the benefit/cost ratio, and prescribe the optimal solution

## **VOLUNTEER WORK EXPERIENCE**

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### **Learning Buddies**

**Jan 2017-Jul 2017**

#### ***Math Tutor***

- Provided one-on-one tutoring assistance to an elementary school student struggling with mathematics.
- Mentored student to improve his self-esteem and attitude towards academics.

### **International Volunteer HQ**

**Aug 2014**

#### ***Mao Cai Orphanage Volunteer***

- Entertained, engaged and cared for young Vietnamese orphans, ranging from newborns to ten year olds.
- Assisted in performing rehabilitative activities for a disabled orphan.

## **EDUCATION**

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### **Simon Fraser University**

**Sept 2017 – current**

#### ***Bachelor of Computing Science, Second Degree***

### **University of British Columbia**

**Sept 2011 – Apr 2016**

#### ***Bachelor of Applied Science: Civil Engineering***

## **AWARDS**

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### **2015W Deans Honour List**

#### **Civil Capstone Design Award (2016 Grad Class)**

## **ACTIVITIES AND INTERESTS**

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- Weightlifting
- Hiking
- Playing guitar