

# Darshan Soni

darshandsoni.com | hello@darshandsoni.com

## Education

### *University of British Columbia*

Bachelor of Applied Science in Integrated Engineering (Civil and Materials)  
2012 - 2017 | Vancouver, Canada

## Skills

### *Programming:*

HTML5 • JavaScript • CSS3, LESS SASS  
• LaTeX • R • AsciiDoc(tor) • Ruby (basic)  
• C (basic)

### *Software:*

AutoCAD • SolidWorks • Trimble  
Sketchup • ArchiCAD • Synchro • Raven  
Composites • Git • GIMP / Photoshop  
• MATLAB / Octave • MS Office • Fe-  
dora/RedHat • Debian • Tmux • Rsync

## Awards

### *International Scholar Award*

• Full Undergraduate scholarship for 5  
year degree at UBC.  
• 2012 - 2017

### *Chancellor's Award*

• Entrance Honour List for academics  
• 2012

### *Best AS Level Geography Student*

• Best Geography student in Premier  
Academy in Year 12  
• 2011

### *Best IGCSE Results in Kenya in 7*

#### *Subjects*

• Best marks in Kenya in Maths, English,  
Physics, Chemistry, Biology, Geography  
and Spanish  
• May 2010

## Languages

English (Native) • Gujarati (Native)  
• French • Spanish • Hindi • Kiswahili

## Technical Work Experience

### *Web Developer, UBC Faculty of Education*

Jan 2016 - July 2016 | Vancouver BC, Canada.

- Co-op work term with UBC Faculty of Education.
- Designed and managed website for the Department of Language and Literacy Education (LLED).
- Designed a live search plugin for the wordpress site to feature re-search work.
- Evaluated the site by surveying Faculty and Students and wrote up management documentation.

### *Junior Project Engineer, UBC Faculty of Medicine*

Jan 2015 - Sep 2015 | Spiti Valley, India.

- Civil Engineering junior project lead.
- Evaluated water infrastructure in remote Himalayan community.
- Designed robust system to improve sanitation.
- Worked with a small team at high altitude with no modern connectivity.
- Co-authored research paper on healthcare and sanitation infrastructure.
- Presented project at the CUGH Conference in San Francisco.

## Technical Projects

### *Geological Environmental Monitoring System (GEMS)*

Sep 2016 - April 2017 | UBC

- Integrated Engineering capstone project.
- Co-designed autonomous monitoring buoy for monitoring water quality at tailings ponds.
- Implemented telemetry system to relay collected data.
- Developed IoT live website for analytics
- Published report on the feasibility of the device.
- Project site available at gemsengineering.ca

### *Surrey Adaptive Traffic Signal Analysis*

Sep 2016 - December 2016 | UBC

- Evaluated adaptive signalization in Surrey, BC.
- Generated Synchro models of traffic flow.
- Modelled traffic flow times from past data.
- Formulated a control test with the Google Maps API.
- Co-authored a report for the city.

### *Optical Quality Assessment System*

Sep 2014 - April 2015 | UBC

- Integrated Engineering 3rd year project.
- Designed an automated optical quality inspection device for small / medium scale silkscreen printers.
- Fabricated and demonstrated the device to an industry partner, faculty members and alumni.
- Used opensource Canon firmware modification and lua packages.
- Published report on the feasibility of the device.