

Darshan Soni

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Education

University of British Columbia

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

Skills

Software:

Synchro • AutoCAD • SolidWorks • Trimble Sketchup • ArchiCAD • Raven Composites • GIMP / Photoshop • MATLAB / Octave • MS Office • Fedora / Red-Hat • Debian / Ubuntu • openSUSE • Tmux • Rsync

Programming:

HTML5 • JavaScript • CSS3, LESS & SASS • LaTeX • R • AsciiDoc(tor) • Ruby (basic) • C (basic) • Git • Agile development • Code review

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 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 from 72 Ave through Newton 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.

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 research 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.