

ARTH DALWADI

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EDUCATION

Concordia University (Montreal, Quebec)

Master of Engineering, Civil Engineering (Major in Transportation) (GPA 3.65/4.3)

Sep 2017- Apr 2019

Institute of Technology, Nirma University (Ahmedabad, India)

Bachelor of Technology, Civil Engineering (GPA 7.2/10)

May 2011- Jun 2015

WORK EXPERIENCE

RKC Infrabuilt Private Limited (Ahmedabad, India)

Project Engineer

Jul 2015 - Jul 2017

- ♦ Reviewed contract documents, performed quantity take-offs & cost estimation for design-bid-build projects.
- ♦ Drafted cross sections, alignment plan and longitudinal section using AutoCAD, Civil 3D and MX Road.
- ♦ Prepared drawings, safety plans, technical reports & memos and obtained approvals with minimal revisions.
- ♦ Liaising with structural & geotechnical engineer, safety consultant, project team, architects and approving authorities
- ♦ Coordinated traffic, topographic and geotechnical surveys, managed up to 8+ employees at multiple locations.
- ♦ Accelerated survey and analysis process by 45% by implementing dynamic data collection strategy & macro in Excel.

RKC Infrabuilt Private Limited (Tarapur, India)

Site Engineer

Dec 2015 - Apr 2016

- ♦ Collected highway and structure condition survey data and oversaw site surveys and TBM marking activities.
- ♦ Guided junior engineers and site supervisors by preparing weekly execution plans with rigorous follow-ups.
- ♦ Mitigated road construction delays by monitoring & planning material and heavy machinery usage.
- ♦ Supervised sampling and ensured quality control of road paving and concrete used in drain and culvert construction.

bSafal Construction Group, PRIVILON (Ahmedabad, India)

Summer Intern

Dec 2014 – Apr 2015

Daily and weekly monitoring of work progress; Preparation of bar bending schedule for columns, slab & footings; meeting with appointed subcontractors and consultants; Inspection of reinforcement and marking for foundation & columns.

Tim Hortons (Montreal, Quebec)

Team Member

Oct 2017– Apr 2019

Served fast food for 250+ people per day in fast-paced environment providing timely and exceptional customer service.

Habitat for Humanity (Montreal, Quebec)

Volunteer, Construction worker

Mar 2019– May 2019

Working with construction tools, erecting wooden frame structure, installing doors, windows and floor finish activities.

SOFTWARES KNOWN

AutoCAD, Civil 3D, MX Road, Microstation, ArcGIS, VISUM, VISSIM, Synchro, SimTraffic, TES, R/Rstudio and MS-Office suite

ACADEMIC PROJECTS

‘Proximity analysis for metro transit ridership based on socio-economic & demographic characteristics of commuters’ *Concordia University*. Newly built mass transit corridors were macro modeled to generate prediction equations for future extensions based on different socio-economic parameter input. Performed regression analysis achieving 76% significance.

‘R.E.M. (Réseau Express Métropolitain) light rail project extension plan on the South Shore, Montreal’ *Concordia University*. Bus rapid transit and tram feeder line service for LRT was planned and simulated on **VISUM** integrated with census data, GTFS bus routes, land use and origin destination matrix data.

‘Performance measures of Travel Time Reliability: Case Study of Austin, TX’, *Concordia University*. Used Bluetooth travel sensor data to compute performance measures and variations for 12-week period by data analytics for 3 arterial roads.

‘Pavement Management System for Costa Rican Road Network’, *Concordia University*. Allocated budget, researched pavement improvement technologies and traffic predictions to reduce average IRI of 3.98 to 1.18 using **analytical solver**.

MASTER'S COURSE HIGHLIGHTS

- Traffic Engineering
- Urban Transportation Planning
- Pavement Design
- Pavement Management Systems
- Design & Planning of Bridges
- Foundation Engineering
- Soil Behavior
- Project Cost Estimation
- Project Management
- Familiar with Geometric Design Guide for Canadian Roads, Manual of Uniform Traffic Control Devices (MUTCD), Ontario traffic manual standards, Traffic Association of Canada (TAC), MTO Standards, HTA, AASHTO and Highway capacity manual (HCM).

LEADERSHIP EXPERIENCE

Organization of Civil Engineering Students (OrCES), Nirma University (Ahmedabad, India)

Joint Secretary

Dec 2013 – Dec 2014

Involved in decision making for the organization as a part of core-committee. Planned and handled technical & cultural events and workshops during Nu-Tech'14. Ensured hospitality for participants and guests.

Indian Society of Technical Education (ISTE), Nirma University (Ahmedabad, India)

Executive Head

Jul 2013 – Jun 2014

Planning and scheduling of events, managing workforce for specific events. Designed and hosted several engineering competitions. Organized national level bridge design workshop which attracted over 72 student participants.