

NIRAJ DAS

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SUMMARY OF QUALIFICATIONS

- Graduated in Master of Engineering from Ryerson University, specialization in Transportation Engineering
- Professional Engineers Ontario (PEO)'s application under review for EIT
- Monitored and tracked time-based schedules for the construction works on MS Project
- Simulated, optimized and modeled network analysis on transportation infrastructure using PTV Vissim
- Attained knowledge of traffic signal, geometric design of road network with, MTO Standards, Ontario Traffic Manual, and TAC
- Excellent team player, self-driven, organized, detailed and result oriented
- Proven communication skills and ability to learn new applications
- Valid Ontario Driving license and owns a vehicle

TECHNICAL SKILLS

- Experienced with AutoCAD designing and drafting along with structural design with STAAD Pro
- Expertise in Transportation software's HCS, Synchro, Sim Traffic and modeling with Vissim, and QGIS
- Skilled programmer in Python and C
- Proficient in MS Office and Google Suite

WORK EXPERIENCE

BUILDING ENGINEER

JAN 2017 - AUG 2017

INSTITUTION FOR SUITABLE ACTION FOR PROSPERITY

NEPAL

- Prepared a detailed estimate of community building using MS EXCEL, presented slides for the pitch and secured funding from Peace Wind Japan to construct four community buildings with a budget of around 120,000 CAD which was utilized by 400 families in the affected community
- Designed and analyzed on STAAD Pro for critical structures effected by earthquake which was approved for the new development by the City Building Commission of Nepal
- Developed a curriculum according to the guidelines of HELVETAS for the construction of buildings designed for earthquake by leading a team of over 100 construction workers
- Prepared a detailed report for Peace Wind Japan according to the Nepal Building Code 105 design and impacections for the project

CIVIL SITE ENGINEER

MAY 2015 – DEC 2016

MINISTRY OF URBAN DEVELOPMENT AND BUILDING CONSTRUCTION

NEPAL

- Prepared detailing of reconstruction framework and budgeted for the Village Development Committee which was submitted to the Department of Urban Development and Building Construction
- Assisted and provided technical guidance for the safe demolition of buildings which was damaged during the 2015 earthquakes
- Insured the on-going construction met specification of the project and released allocated funding

- Maintained a technical project completion report on monthly basis which was submitted to the Government of Nepal and International Donors to monitor the reconstruction work for the Village Development Committee

EDUCATION

MASTER OF ENGINEERING

DEC 2018

RYERSON UNIVERSITY

Modules Taken: Transportation Planning, Traffic Operations and Management, Pavement Design, Advanced Highway Geometric Design, Urban Transport Systems, Road Safety, Construction Project Management and Administration, and Quantitative Statistical Methods

Project and Research: Optimization of Network by Changing Signal Timing and Restricting any Physical Change, Multi Modal Choice Based Modeling using Python-BIOGEME, debated on the Construction of “Downtown Relief Line”, Land Change Classification of City of Toronto using Satellite Image

BACHELOR OF ENGINEERING

APRIL 2015

JAWAHAR LAL NEHRU TECHNOLOGICAL UNIVERSITY

Final Year Project: Partial Replacement of Course Aggregates in Concrete by Recycled Aggregate

- Examined the sustainability of recycled construction material by reducing the excavation of natural resources
- Determined a positive result with little to no deterioration in strength of concrete up to 30% replacement by performing compressive strength test
- Generated results indicated that course aggregate can replace 50% by volume when the casting is excluded for structural component and indicated the increase in water absorption by 5-10% with an attained workability

VOLUNTEERING AND ACTIVITIES

- Attended Metrolinx Masterclass for Ryerson University Student hosted on 27th March 2019
- Volunteered for Intelligent Transportation System Society of Canada Conference - “Mobility 2030: Bridging Innovation and Green Future”
- Volunteered for the Mobility and Resources for the Construction of Temporary Shelter after the Earthquake of Nepal 2015

MEMBERSHIPS

- Young Professional in Transportation (YPT)
- International Transportation Engineer (ITE)
- Canadian Institute of Transportation Engineer (CITE)