

SUNNY RAHUL ROY, EIT, LEED GREEN ASSOCIATE

101 BRIDLEGROVE DRIVE, SCARBOROUGH, ON M1M 3X2, CANADA +1.647.939.7301 SUNNY.RAHUL.ROY.92@GMAIL.COM

EDUCATION

- Bachelor of Science (BSc.) in Civil Engineering, **PURDUE UNIVERSITY, WEST LAFAYETTE, IN, USA**
 - Recipient of Gregory Wilcox and Cara Perrone Scholarship for Excellence in Leadership
 - Recipient of William P. Corcoran Award for Best Engineering Design

CERTIFICATIONS

- Engineer-In-Training (EIT) ▪ Professional Engineers Ontario (PEO) ▪ License# 100501416 Aug 2016-Present
- LEED Green Associate ▪ US Green Building Council (USGBC) ▪ License# 11101791 Oct 2016-Present

PROFESSIONAL EXPERIENCE

Fermar Paving Limited ▪ Toronto, ON, Canada

Project Coordinator, Metrolinx Stouffville Rail Expansion 2nd Track Phase II June 2017–Nov 2017

- Assigned as a senior EIT, oversaw and supervised 2 junior field engineers on the company's largest and only rail project to date.
- Spearheaded multiple Locate Permits for Enbridge Gas, Toronto Hydro and Bell Canada accelerating the utility work to commence within 3 weeks instead of 8.
- Contributed to progress review meetings with Project Manager; ensured scope of work is managed and project milestones were achieved based on contract specifications.
- Inspected all on-going construction activities in compliance with contract specifications and GO Transit Track Safety Standards including compiling daily site reports.
- Advocated as a Health & Safety Coordinator on site; led safety briefings and tailgate talks to a team of 20 foremen and subcontractors daily.
- Computed weekly Profit and Loss Statements to analyze revenue, labor, equipment and material costs.
- Administered payment process including negotiating contract tender items, progress payments, preparing Certificates of Payments and assessing back charges.
- Processed and reviewed Requests for Information (RFI), Contract Amendments and Change Orders as required.
- Assisted the site superintendent in scheduling construction activities; generated 3 week look-ahead schedules.
- Drafted excavation and paving Work Plan submissions; revised Work Plan releases from subcontractors.
- Facilitated decision making processes, serving as a liaison between contract administrators and project managers; mediated disagreements on approach to tasks within the project.

Metrolinx ▪ Toronto, ON, Canada

Intern, VivaNext Bus Rapid Transit (BRT) Program Aug 2016–June 2017

- Ensured project compliance with contractually defined requirements and obligations regarding funding, delivery, approvals, invoices and payments were adhered for the VivaNext BRT project in York Region, Canada.
- Reviewed and interpret technical drawings versus PA compliance, contract documents, RFI submissions, design changes, contractor submissions including look ahead schedules and financial milestones for phase completions.
- Compiled data across North American jurisdictions and executed a detailed report on standardizing BRT projects in GTHA including bus rapidway, roadway elements and station specifications following the OPSS and GO DRM.
- Responsible for updating the Metrolinx scheduling team regularly to ensure project activities were planned and scheduled in adequate detail.
- Liaised with Project Managers, clients, private and other public stakeholders during design and construction phase including Infrastructure Ontario (IO) on H2EW project which is a P3 AFP project.
- Participated and contributed in weekly construction coordination meetings with the VivaNext project team, utility coordinators, contractors, site supervisors and independent certifiers updating the status of the assigned projects.
- Organized, prepared and reviewed documentation including independent certifier progress reports, presentations and meeting minutes.
- Assisted the Project Controls team in compiling updates on the assigned projects for the monthly internal RT report.

Aajkal Property Management ▪ Toronto, ON, Canada

Restoration Coordinator Jan 2016– Aug 2016

- Completed technical assessments, testing and evaluations related to building exterior walls, windows, roofs and parking structure.
- Conducted field review and prepared reports throughout the building restoration phases including monitoring progress, meeting Ontario building codes and standards.
- Planned and monitored the project schedule on a regular basis to ensure that the project milestones were met within the project timeline and budget.
- Liaised with the property owner, building manager and interior decorator in assisting with the project related inquiries.
- Confirmed QA and QC checks have been completed with the utility coordinators.

University Place Retirement Community Housing ▪ Lafayette, IN, USA

Junior Project Coordinator Aug 2015–Dec 2015

- Collaborated with the project manager and a team of 5 members to plan the logistics for a two-phase fire system at the University Place Retirement Community Housing.
- Managed, prepared and tracked project documentations including Request for Proposal, RFI, Request for Qualification, Purchase Orders and Submittals.
- Compiled project reports from Primavera Contract Management and project close-out documentation.
- Contributed to project site visits to verify contractor performance and carried out punch-list inspections.

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VS Engineering Inc. ■ Indianapolis, IN, USA

Field Engineer

May 2015–Aug 2015

- Generated red flag documentation for pre-construction inspections for the cities of Union Mills, Hanna, and Rolling Prairie within LaPorte County, Indiana.
- Employed technical proficiency in utilizing BidTabs Professional in preparing quantity summary sheets and construction estimation of projects during the procurement process.
- Provided supervision to 5 interns during traffic count project, while preparing their performance reports.
- Contributed key insight in developing the storm water watershed design by integrating StreamStats Indiana and AutoCAD Civil 3D; prepared delineation of the existing area; and evaluated the water flow for the particular area.

Wabash Center Greenbush Industries (WCGI) ■ West Lafayette, IN, USA

Project Manager

Aug 2014–Dec 2014

- Spearheaded a team of 12 members in designing and developing a pallet transport for workers at WCGI.
- Set agendas and designed methods for laboratory meetings to enable an open and effective atmosphere for the sharing of team members' expertise, knowledge, and creative problem solving.
- Displayed competency in structuring a project plan progress and budget as well as individual roles of the team members.
- Led the development and execution of risk management assessments and strategies, while ensuring a safety environment and administering Design Failure Mode and Effects Analysis (DFMEA).

City Hall of West Lafayette ■ West Lafayette, IN, USA

Traffic Engineering Intern

May 2014–Aug 2014

- Setup traffic counters at different locations within the cities of Lafayette and West Lafayette for traffic counts and speed studies.
- Gathered power and energy data information of traffic signals and prepared progressive reports for the Indiana Department of Transportation (IndOT)
- Rendered keen management to onsite inspection services which involved footings and foundations; building pads; and concrete testing at the construction site at North Salisbury road at West Lafayette.
- Administered the collection of data for sidewalk and ramp constructions through Trimble as well as the uploading of information to ArcGIS.

Charles Pankow Materials Laboratory ■ West Lafayette, IN, USA

Research Assistant

Aug 2013–May 2014

- Accurately determined the micro-structure of concrete samples for different water-cement ratios by performing electrical resistivity tests.
- Created various concrete mix samples and conducted tests such as Slump Test, 28 Day Compressive Strength, workability and durability properties.
- Conducted sieve analysis to determine the fineness modulus of sand and clay.
- Demonstrated keen attention to detail in documenting oven dry and saturated mass of concrete blocks in support of mixture designing and proportioning.
- Designed asphalt briquette using the Marshall Method and performed various tests to determine its properties.

Sheltech (Pvt.) Ltd ■ Dhaka, Bangladesh

Civil Engineering Technician

May 2013–Aug 2013

- Assisted the construction and project management teams with the preparation of sidewalk designs using AutoCAD.
- Created an electronic database of concrete mixes, suppliers and equipment rentals for the company.
- Generated and catalogued all necessary drawings and documentations for the ongoing projects.
- Travelled from site to site to check and enforce Health and Safety Regulations.

Keystone Business Support Company Ltd ■ Dhaka, Bangladesh

Survey Technician

Dec 2012–Jan 2013

- Participated in drafting survey notes and prepared detailed survey drawings in AutoCAD.
- Created and managed the company's survey reports and databases.
- Assisted the site superintendent in conducting and coordinating on-field surveys.

VOLUNTEER EXPERIENCE

Ontario Society of Professional Engineers (OSPE) ■ Scarborough, ON, Canada

Representative, Scarborough Centre

Aug 2017–Present

- Volunteered as the Political Action Network (PAN) representative for the Scarborough Centre riding, equipped with the information required to consult with MPPs and helped implement public policies beneficial for engineers and public.
- Advocated public policy with regards to infrastructure, climate change, energy and the engineering labor market.
- Developed relationships with elected officials from each party, encouraging them to adopt OSPE policy solutions and become a champion on a particular issue that impacts engineers.
- Enhanced relationships within the greater engineering community, including the profession's regulatory body PEO, through collaboration with regional PEO Chapters.

TECHNICAL SKILLS

Microsoft Office | Microsoft Project | AutoCAD | Primavera | Civil 3D | Timberline | ArcGIS | ProjectWise | CM 14

PAN Meeting with the Honourable Brad Duguid (Scarborough Centre)

On August 29, 2017, PAN representative Sunny Rahul Roy, EIT and Patrick Sackville, Policy and Government Relations Lead, met with the Honourable Brad Duguid. Minister Duguid is Ontario's Minister of Economic Development and Growth.

Minister Duguid was very familiar with OSPE and its activities, so Sunny focused the constituency meeting on whether residential developments across the Greater Toronto Area (GTA) are meeting green technology standards. Although the upfront costs are high, studies indicate this investment cuts energy expenditures within five to ten years.

Minister Duguid noted that the current government has a few initiatives in place in response to the growing green technology demands. The government's priority is to reduce greenhouse gas emissions from the agricultural sector as it is the largest contributor, followed by transportation and eventually buildings, both residential and commercial.

Minister Duguid added that implementing green technology as a requirement in building development is a slow but crucial process. Moreover, the Ontario building code needs to be amended, and the Minister added there are positive changes being made every year.

Lastly, Sunny, Patrick and Minister Duguid discussed electric vehicles. Ontario is the first jurisdiction to have a smart meter system set in place, but to be a champion in this field, more needs to be done. This includes continuing to build a better and sophisticated smart power system, adding more charging stations in the GTA, and continuing to use solar panels within public transportation shelters and stops.

Thank you to Sunny for his dedication to the engineering profession, and thank you Minister Duguid for meeting with OSPE!



From left to right: Sunny Rahul Roy, EIT, Minister Brad Duguid, and Patrick Sackville, OSPE Policy and Government Relations Lead.