



SAMINA MEHAR

LIGHTING DESIGN CONSULTANT

Lighting Design specialist acknowledged for well-defined understanding of the sustainability integration in Lighting design-build projects and leading multi-disciplinary project teams for large municipality and corporate projects (up to \$ 40 Million).

RELEVANT WORK EXPERIENCE SUMMARY

Lighting Design Project Management

- City of Markham LED Conversion Project for 12000 City owned HPS Roadway light assets
- City of Mississauga Interior and exterior citywide facility assets LED conversion Project incl. Community Centers, Gymnasiums, Swimming Pools, Ice rinks and city offices
- LED Conversion project for 14 schools under Northern Gateway school Board, BC, Canada

Project/Program Management

- Managed city of Markham's underground cable replacement (20 km /yearly) for 5 years consistently ensuring that optimal resources are in place to meet project and City's business deliverables.

LED Retrofit Consulting/Feasibility Reports

- Conducted feasibility study for Park pathway LED Conversion project for City of Mississauga
- Developed and presented Project feasibility report for remaining 14000 decorative local road lights in city of Markham

Specification Development

- Led and performed time critical order of magnitude surveys, investment grade audits, and measurement and verification functions for performance contract lighting Facility Improvement Measures for 17 schools under Kenora School Board, ON, Canada

Energy Incentive Applications

- Coordinated and applied for OPA energy incentive grants of up to \$400,000 for various Interior and exterior LED conversion projects completed in various roles using both custom and engineered calculation methodologies.
- Developed highly technical M&V protocols to establish actual savings achieved through the conversions.

Contract Documentation

- Developed Request for Proposal, Request for Tender and complete Specification documents for all City level LED Conversion Projects

AGI32 Simulations

- Conducted City wide almost 200 km roadway AGI32 simulation for LED conversion Project for York Region using GIS mapping system.
- AGI 32 calculations for new lighting designs in 20 Gymnasiums.

Lighting Design Guides for Municipalities

- Wrote comprehensive Lighting Design Guides for City of Aurora and City of Markham


Lighting Research Collaboration


- Reviewed & updated lighting power density data of lighting fixtures for Model National Energy Code (MNECB), Canada lighting Code
- Wrote Green Construction and Technology (GCT) Credit for Lighting Pollution in LEED Neighborhood Development (ND) guide as Lighting Expert- Energy Sub-Committee for Canadian Green Building Council

CONTACT

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PROFESSIONAL WORK HISTORY

- **Illume Consulting Inc.** [Jul 2020]
Principal, Lighting Design & Project Management
- **Johnson Controls** [Mar 2019 – Jul 2020]
Sr. Lighting Design & Proposal Specialist
- **City of Markham** [Apr 2013 –Mar 2019]
Sr. Project Manager, Asset Management
- **City of Mississauga** [Aug 2011 – Apr 2013]
Energy Manager, Asset Management
- **MMM Group** [Sep 2008- Mar 2011]
Energy Analyst, Energy & Sustainability
- **City of Toronto** [Sep 2008- Mar 2011]
Sustainability Research, Tower Renewal
- **Crossey Engineering**[Mar 2009- Sep 2010]
Sustainability Engineer, Green Consulting
- **Alstom T&D Group** [Jun 1996- Aug 2004]
Project Manager , Project Management Off

EDUCATION & CERTIFICATIONS

- M.Sc. Sustainable Building Science- Ryerson University
- B.Sc. Electrical Engineering- NED University
- Post Graduate Diploma- Lighting Design- Ryerson University
- PMP- Certified Project Management Professional
- LEED BD+C - Certified Building Design Professional
- LC - Certified Lighting Consultant