

Fahad Misarwala

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Electrical Engineering Designer

Results-driven Electrical Engineering Designer with experience in commercial solar PV, BESS, and electrical infrastructure projects across Ontario. Proficient in AutoCAD, Revit, PVsyst, and utility interconnection processes, with strong knowledge of OESC, OBC, and Canadian engineering standards. Skilled in preparing permit-ready drawings, conducting site assessments, and coordinating with utilities, clients, and multidisciplinary teams. Experienced in supporting project execution, technical documentation, and renewable energy solutions through strong technical and client coordination skills.

WORK EXPERIENCE

Compass Renewable Energy Consulting Inc. • Toronto

02/2024 – 03/2026

Solar Designer

- Designed commercial solar PV and BESS systems ranging from 50 kW to 2 MW for utility-connected projects across Ontario utilizing AutoCAD and PVCase. Finalized drawing sets for various project phases; incorporated PV and battery system designs within utility standards; managed design task workflows; enhanced CAD libraries for efficiency; and adapted designs to client needs and external constraints. Prepared layout plans, single-line diagrams, grounding details, and panel schedules in compliance with applicable codes and client specifications.
- Supporting sister company CGD (Compass Greenfield Development), I have designed Battery Energy Storage System (BESS) projects from start to finish, including system sizing, single-line diagrams, equipment selection, layout design, protection and control schematics, cable schedules, and integration with solar PV or grid infrastructure. I coordinated with utilities, prepared complete construction and permit-ready drawings, and supported commissioning by ensuring compliance with safety standards and project specifications.
- Lead designer for commercial-scale solar PV and BESS projects, producing complete drawing packages including layout plans, SLDs, grounding details, and panel schedules and coordinated with Ontario utilities on feasibility, interconnection requirements, commissioning, and regulatory processes. Also supported client-facing discussions for solar and BESS projects, helping clarify technical requirements and project scope.
- Engaged new clients seeking energy audits and renewable energy solutions, contributing to lead generation and service expansion. Prepared technical documentation and preliminary design concepts that enabled client decision-making and project initiation.

H.H.Angus & Associates Ltd. • Toronto

01/2023 – 12/2023

Junior ICAT Designer

- Developed initial design sketches and models, revised specifications with senior guidance, coordinated CAD documents to meet standards, delivered quality designs on time and budget, and conducted site visits to ensure design implementation.
- Provide assistance in designing and coordination of integrated technology systems for projects across data centers, healthcare, and commercial sectors, ensuring compliance with client requirements, project specifications, and industry standards.
- Prepared detailed IMIT system designs, technical drawings, calculations, and cost estimates for medium-sized projects involving communications, security, AV, and building automation systems.

- Collaborated with multidisciplinary engineering and project teams to deliver coordinated, constructible, and technically accurate system designs throughout all project phases.
- Performed constructibility reviews and specification updates to improve design efficiency, system performance, and project execution outcomes and supported construction administration activities, including reviewing shop drawings, responding to RFIs, and assisting with field coordination during project execution.

EDUCATION

Post-Graduation Diploma in Building Systems Engineering Technician in Building Systems Engineering

Seneca College of Applied Arts & Technology • Toronto

01/2021 – 08/2022

The two-year program taught me to use software tools like AutoCAD and Revit for building system modeling. I gained knowledge in energy modeling software for assessing building energy efficiency. The curriculum covered principles of energy efficiency, renewable energy technologies, and various building systems such as heating and air conditioning and control systems.

Bachelor's in Electrical Engineering

Gujarat Technological University • Bharuch, India • GPA: 3.2/4.0

08/2016 – 08/2020

I studied the fundamentals of electromagnetism, circuits, algorithms, and instrumentation. I was able to specialize in a range of technologies such as power generation, distribution & operation, electrical equipment specs, lighting, electrical infrastructure planning, control systems, integrated circuit design, and machine learning.

CERTIFICATIONS

Autodesk Revit

12/2020 – Present

Autodesk

AutoCAD (2D + Productivity Tools)

12/2020 – Present

Autodesk

VOLUNTEERING & LEADERSHIP

NCCM

03/2025 – 04/2025

Volunteer

I was volunteering with NCCM (National Council of Canadian Muslims) during 2025 federal elections in Canada. Assisting them with the tasks such as door-to-door visit on election ridings, Motivate and spread awareness about voting in the residential areas. Met various Members of House of Commons and conveyed the concerns and issues of the general population in the respective riding.

SKILLS

Technical: AutoCAD Drafting (Electrical), Building Code Compliance & Knowledge of OESC, Construction/ Tender Drawing Packages, Electrical Design for LV/ MV Systems, Knowledge of electrical engineering principles and energy systems, Multitasking & Time Management, Power Distribution Layouts, Proficiency in solar design software (e. g. , PVsyst, PVcase), Revit Advanced Level, Single- Line Diagrams, Strong understanding of solar photovoltaic (PV) systems and components

Business Development & Client Coordination: Client Relationship Management, Cross-Functional Collaboration, Market Opportunity Identification, Proposal Support, Requirement Gathering, Site Assessments, Technical Communication, Workflow Optimization

Professional: Analytical Thinking, Detailed Execution, Fast-Paced Adaptability, Multitasking, Team Collaboration, Time Management