Arash Mohammadi

Electrical Engineer | Electrical Design Engineer (EIT)

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PROFESSIONAL SUMMARY

Licensed professional engineer with six years designing power distribution for commercial, healthcare and light industrial buildings. Produces single-line diagrams, short-circuit and arc flash studies, and construction drawings to the Canadian Electrical Code. Supports projects from schematic design through commissioning and coordinates closely with architects, mechanical engineers and contractors.

PROFESSIONAL EXPERIENCE

Electrical Engineer

Apr 2022 — Present

Lakeshore Building Systems Engineering · Toronto, ON

- Lead electrical design for hospital and long-term care renovations, including normal and emergency power, generators and transfer switches.
- Complete short-circuit, coordination and arc flash studies in SKM, producing labels and recommendations that clients use to set safe work procedures.
- Design power distribution for a six-storey mixed-use building in Revit, coordinating with mechanical and architectural teams to remove clashes before tender.
- Review shop drawings, answer contractor questions and attend commissioning, signing deficiency lists through to project completion.

Electrical Design Engineer (EIT)

Jun 2020 — Mar 2022

Harbourline Industrial Engineering · Hamilton, ON

- Designed motor control and power distribution upgrades for food and packaging plants, including MCC layouts and cable schedules.
- Prepared load calculations and utility service applications for plant expansions under the supervision of a licensed engineer.
- Surveyed existing electrical rooms on site and updated as-built drawings that had been out of date for years.

EDUCATION

BEng, Electrical Engineering — Harbourfront Technical University **2020**

SKILLS

Technical: Power distribution design, Single-line diagrams, Short-circuit and coordination studies, Arc flash analysis, SKM PowerTools, AutoCAD, Revit MEP, Canadian Electrical Code, Emergency and standby power, Lighting design, Construction administration, Commissioning

Certifications: Professional Engineer (P.Eng.), Professional Engineers Ontario