

Mariem Ahmed

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Toronto, Canada

To Whom it may concern,

I am writing to express my strong interest in exploring career opportunities or internships within the engineering industry. With my background in mechanical engineering, minor in robotics and mechatronics, and expertise in various relevant tools and technologies, I am confident in my ability to contribute to your organization's success.

My academic journey culminated in achieving an Honours Bachelor of Applied Science in Mechanical Engineering, with recognition on the Dean's List 2021 (Honours). My educational pursuits extended to encompass a minor in Robotics and Mechatronics, as well as certifications in Artificial Intelligence Engineering and Engineering Business. I have honed my skills in a wide range of tools and technologies, including MATLAB, Python, Arduino, C, C++, SolidWorks, Fusion 360, AutoCAD, SAP, GNet, Excel, Word, PowerPoint, and ANSYS Finite Element Analysis (FEA).

My practical experience in the electrical and construction field, coupled with my academic accomplishments, has solidified my proficiency in project management, problem-solving, and attention to detail. As a Senior Estimator at Powerline Plus Ltd., I supervised and led junior estimators, prepared high-level cost estimates for Toronto Hydro projects, and handled challenging projects, such as jack and bore projects. In my role as a Designer at the same company, I prepared design drawings, performed calculations for utility design, and ensured the production of high-quality drafts adhering to all applicable standards. Furthermore, as an Electrical and Construction Coordinator at Energy Network Services Inc., I prepared cost estimates and bids for Electrical Vehicle Charges projects, developed specifications and tender packages, and conducted field visits during the design and construction processes.

My academic background, paired with my professional experiences, has enabled me to cultivate skills in interpreting and analyzing electrical diagrams, writing effective RFP responses, managing project plans, and collaborating with cross-functional teams. Currently, I am pursuing a Part-Time Master's degree in Electrical and Computer Engineering at the Toronto Metropolitan University (Ryerson University) to further enhance my knowledge and capabilities in this field.

I am eager to learn from industry professionals, share my knowledge, and explore potential opportunities within the organization. I am confident that my dedication, problem-solving skills, and critical thinking abilities make me a valuable addition to any organization.

I am looking forward to the opportunity to discuss how I can contribute to the organization. Please find my resume attached for your reference. Thank you for considering my application.

Sincerely,



Mariem Ahmed



MARIEM AHMED

ELECTRICAL ENGINEER

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Toronto, Ontario

PERSONAL PROFILE

Dedicated professional currently pursuing a Part-Time Master's degree in Electrical and Computer Engineering, seeking full-time job opportunities or internships in the engineering industry. With 3+ years of experience in the electrical and construction field, I have established a solid foundation in electrical systems through my academic journey. Additionally, my professional background has honed my practical skills, particularly in project management, problem-solving, and meticulous attention to detail. Showcasing excellent deliverables and results demonstrating dedication, leadership, superior communication, and industrious behaviour. Critical thinking and analysis expertise manifesting the ability to problem solve both creatively and effectively. Proven ability to multitask under pressure and meet deadlines without compromising quality and accuracy of deliverables.

EDUCATION

Toronto Metropolitan University **Masters of Electrical and Computer Engineering**
April 2025 In Progress

University of Toronto **Honours Bachelor of Applied Science Mechanical Engineering (2021 Deans List)**
April 2021

- Minor in Robotics and Mechatronics
- Certificate in Artificial Intelligence Engineering
- Certificate in Engineering Business

Relevant Skills: MATLAB, Python, Arduino, C, C++, SolidWorks, Fusion 360, AutoCAD, SAP, GNet, Excel, Word, PowerPoint, Outlook, ANSYS Finite Element Analysis (FEA), Robot Operating System (ROS)

Relevant Certifications: Basic Machining, LabView, Professional Engineering in Progress

PROFESSIONAL EXPERIENCE

Project Coordinator February 2023 - Present
Energy Network Services Inc.

- Responsible for preparing cost estimating and bids for Electrical Vehicle Charges projects.
- Develop and compile specifications and tender packages.
- Conduct field visits during the design development and construction process.
- Contribute to proposal development includes preparing schedules, cost estimates, and conducting project research.
- Skill in interpreting and analyzing electrical diagrams, and technical specifications.
- Write an effective response to the RFP that is clear, concise and compliant with the requirements
- Excellent problem-solving abilities and attention to detail.
- Effective communication and interpersonal skills for collaborating with cross-functional teams.
- Carry out supervision of installation and commissioning for Electrical Vehicle Charges.
- Manage procurement and logistics for electrical materials, equipment, and tools, optimizing cost efficiency and availability.

Designer June 2021 - January 2023
Powerline Plus Ltd.

- Assisted in preparation of design drawings and perform calculations for utility design drawings using SpidaCal and Voltage Drop Analysis.
- Accountable for the production of high-quality design drafts that incorporate best utility practice in accordance with Toronto Hydro standards and all applicable laws, codes and regulation.
- Created electrical schematics and Feeder-prints using AutoCAD Electrical Toolset.
- Determined most effective approaches to new projects by reading and analyzing feeder-prints, drawings and sketches.

Senior Estimator May 2022 - January 2023
Powerline Plus Ltd.

- Supervised, led and trained Junior Estimators.
- Responsible for preparing High Level Estimate Cost for Toronto Hydro projects.
- Prepared material take-offs for MOSAIC and ELLISDON projects Works on the most challenging projects that required a broad understanding of construction methods (Jack and Bore projects) to estimate costs.
- Assigned estimating team members to ensure all scope of work items have been accounted for.
- Regularly reporting to Management and subcontractors updated on the project estimate status.
- Coordinated procurement of vendor and subcontractor quotes.
- Participated in development of solutions to subcontractors with a focus on financial analysis and capital investment.
- Collaborated with all departments to prioritize current projects for estimation.

Estimator June 2021 - May 2022
Powerline Plus Ltd.

- Performed material take-offs and cost analyses for all projects
- Generated and evaluated multi-million dollar civil and electrical projects to verify accuracy of material pricing and validity of Excel formulae.
- Cost estimated, and cost control for all projects by using estimating tools SAP, GNet, and RFP Cost Excel Sheet, contacted subcontractors for pricing and negotiation of work.
- Attended meetings and discussed unit pricing with subcontractors Responsible for inspecting the site before construction to ensure that the requirements of the Contract Documents are fulfilled in a safe manner with requisite quality.
- Established skills and knowledge necessary for advancement to Senior estimator position.