

City of London - Application for Appointment to a City of London Board or Commission

Application

Please choose the Board or Commission you are interested in serving on: **LTC**

Contact Information

Name: **Eric Franke**

City: **London**

Province: **ON**

Postal Code: **N5X1A5**

Experience and Qualifications

If you have experience on a London Board or Commission, please provide dates and details. (max. 3000 characters): **N/A**

What do you hope to contribute or learn as part of a Board or Commission? (max. 3000 characters):

Introduction:

As a professional engineer and project manager with a passion for volunteering and supporting the community, I may not have direct transit experience, but I believe my unique background and skills can bring a fresh perspective to the London Transit Commission (LTC) Committee. In this document, I will outline how my expertise, commitment to community development, and collaborative mindset can make a positive contribution to the committee's objectives.

Engineering and Project Management Expertise:

My career as a professional engineer and project manager has provided me with a strong foundation in problem-solving, critical thinking, and project execution. My ability to analyze complex situations, create efficient solutions, and manage resources effectively can be of use to the LTC Committee. I can apply my skills to evaluate the technical aspects of proposed projects, assess their feasibility, and evaluate if they are executed efficiently within budget and timeline constraints.

Collaborative Mindset:

Collaboration is essential in any committee, and I am a firm believer in the power of teamwork. My experience in project management has taught me the importance of fostering open communication and collaboration among diverse stakeholders. I can facilitate constructive discussions and bridge gaps between different perspectives, helping the LTC Committee make well-informed decisions that benefit the entire community.

Passion for Volunteering and Community Support:

My passion for volunteering and community support is a driving force in my life. I have been actively involved in various community initiatives, from working with the local Repair cafe as well as robotics team coaching at A.B. Lucas Secondary School. I understand the LTC's crucial role in enhancing the quality of life for London's residents. I am committed to ensuring that the transportation system aligns with the needs and aspirations of the community, promoting accessibility and inclusivity.

Commitment to Continuous Learning:

I am fully aware that transit is a specialized field, and I am committed to bridging my knowledge gap. I am open to ongoing training and education to better understand the nuances of urban planning, transit systems, and related policies. My dedication to continuous learning will ensure that I become a more informed and effective committee member over time.

Conclusion:

In conclusion, my background as a professional engineer and project manager, combined with my dedication to volunteering and community support, equips me with the skills and mindset to positively contribute to the London Transit Commission Committee. I am eager to collaborate with experienced committee members, learn from

their expertise, and offer a fresh perspective that promotes the LTC's mission of providing efficient and accessible transit services for the people of London.

How will you support the work of a Board or Commission? (max. 3000 characters):

I will support the work of the LTC committee through the following key contributions:

- 1. Collaborative Approach:** I believe in fostering a culture of collaboration within the committee. I will actively engage with fellow members and stakeholders, facilitating open communication and teamwork. By bridging gaps between different perspectives, I aim to contribute to well-rounded discussions and consensus-driven decision-making processes.
- 2. Community Focus:** My passion for volunteering and community support drives my commitment to the LTC's mission of enhancing the quality of life for London's residents. I will advocate for transit solutions that align with the needs and aspirations of the community, ensuring accessibility and inclusivity for all. I will actively seek feedback from the public to inform the committee's decisions.
- 3. Continuous Learning:** While I may lack direct transit experience, I am dedicated to closing this knowledge gap. I will invest time in ongoing training and education to better understand urban planning principles, transit systems, and related policies. This commitment to continuous learning ensures that I become a more informed and effective committee member over time.
- 4. Innovation and Efficiency:** I will bring a fresh perspective to the committee by identifying opportunities for innovation and efficiency improvements. By working closely with experienced transit planners, I will contribute ideas to make the LTC more sustainable, environmentally friendly, and responsive to London's evolving transportation needs.
- 5. Problem Solving:** I will actively engage in problem-solving activities related to transit challenges. By analyzing data, identifying bottlenecks, and proposing practical solutions, I will assist in overcoming obstacles to improve the LTC's service delivery and reliability.
- 6. Advocacy and Representation:** I will represent the interests of the community, especially those who rely on public transit. I will be a voice for equitable and accessible transportation options and advocate for policies and initiatives that address the diverse needs of London's residents.
- 7. Adherence to Best Practices:** I will ensure that the committee adheres to industry best practices, regulatory requirements, and ethical standards. This commitment will help maintain the LTC's reputation for transparency, accountability, and responsible decision-making.

In summary, I will support the LTC committee by leveraging my technical expertise, collaborative mindset, community focus, commitment to learning, innovative thinking, problem-solving abilities, advocacy, and dedication to best practices. With these contributions, I aim to assist the committee in achieving its goals of providing efficient, accessible, and sustainable public transit services for the benefit of London's residents.

Please describe additional experience, training, or community involvement that will help you in your role as a Board or Commission Member. (max. 3000 characters):

In addition to my professional background and engineering expertise, my involvement in various community initiatives and volunteering experiences further equips me for the role of a Commission Member:

- 1. Coaching AB Lucas Robotics Team:** My volunteer work with the AB Lucas robotics team, as part of the FIRST Robotics program, has provided me with valuable insights into mentorship, team collaboration, and fostering innovation among young minds. This experience has honed my ability to mentor and guide individuals, which will be beneficial when working with committee members and engaging with the community.
- 2. London Repair Cafe:** Volunteering as a Fixer at the local London Repair Cafe, organized by Reimagine Co., has deepened my commitment to sustainable and eco-friendly practices. This hands-on experience in repairing and repurposing items aligns with the LTC's goals of promoting sustainability and reducing environmental impacts. It has also heightened my awareness of the importance of public transit in reducing individual carbon footprints, making me a more environmentally-conscious committee member.
- 3. Community Engagement:** Both my volunteer roles have involved active engagement with the London community. This experience has sharpened my ability to listen to the concerns and ideas of community members, ensuring that their voices are heard and considered in committee decisions. It emphasizes my commitment to representing and advocating for the community's interests within the LTC.
- 4. Sustainability and Environmental Awareness:** My involvement in eco-conscious

initiatives has heightened my sensitivity to sustainability issues. I will bring this awareness to the committee, advocating for eco-friendly transit options, reducing emissions, and promoting sustainable transportation practices in line with the LTC's commitment to environmental responsibility.

In summary, my coaching experience with the AB Lucas robotics team and volunteer work at the London Repair Cafe have provided me with additional skills and perspectives that complement my professional background. These experiences enhance my ability to mentor, engage with the community, promote sustainability, find creative solutions, and advocate for eco-friendly practices—qualities that will contribute positively to the LTC Committee's mission and objectives.

We value the contributions of Londoners with diverse experiences and welcome applications from individuals who share our commitment to reconciliation, equity and inclusion. Please describe how your work, community or lived experience will enhance these efforts through Board and Committee work. (max. 3000 characters):

My work, community involvement, and lived experiences have ingrained in me a deep appreciation for the values of reconciliation, equity, and inclusion. As a Commission Member, I will contribute to these efforts by:

- 1. Promoting Inclusivity:** Leveraging my experience as a mentor and volunteer, I will actively foster an inclusive atmosphere within the committee, ensuring that all voices are heard and valued, regardless of background or perspective.
- 2. Advocating for Accessibility:** I am committed to advocating for accessible and equitable transportation solutions. I will work diligently to ensure that the LTC serves all Londoners, including those with diverse needs, abilities, and cultural backgrounds.
- 3. Diverse Perspectives:** Recognizing the strength in diversity, I will encourage the committee to consider a wide range of perspectives when making decisions. My background in project management and engineering will allow me to analyze the impacts of these decisions on diverse communities comprehensively.
- 4. Community Engagement:** My community involvement, particularly with the Repair Cafe, has taught me the importance of grassroots engagement. I will actively seek input from underrepresented groups and marginalized communities to inform LTC policies and initiatives.
- 5. Continuous Learning:** I am committed to ongoing education about reconciliation, equity, and inclusion. I will proactively seek opportunities to expand my knowledge and understanding, enabling me to make informed and culturally sensitive decisions as a committee member.

In summary, my commitment to reconciliation, equity, and inclusion is reflected in my actions, and I will bring this dedication to the LTC committee. By promoting inclusivity, advocating for accessibility, valuing diverse perspectives, engaging with the community, and continuously learning, I aim to enhance the committee's efforts in fostering a more equitable and inclusive public transit system for all Londoners.

We encourage the engagement of individuals with diverse perspectives and backgrounds to foster inclusivity in our endeavors. In alignment with this commitment, could you provide insights into how your participation in accessibility-related initiatives, whether through professional engagements, community involvement, or personal experiences, will contribute to our ongoing efforts to ensure accessibility and inclusiveness in all facets of our Board and Committee work? (max. 3000 characters):

My participation in accessibility-related initiatives, encompassing professional engagements, community involvement, and personal experiences, equips me to make substantial contributions to fostering accessibility and inclusiveness within the Board and Committee work. Specifically:

- 1. Professional Expertise:** My background as an engineer and project manager has exposed me to diverse accessibility standards and requirements. I can bring this expertise to ensure that LTC projects and initiatives align with accessibility guidelines, making our public transit system more inclusive for individuals with disabilities.
- 2. Community Involvement:** My volunteer work at the local Repair Cafe has given me firsthand experience in addressing accessibility issues. I've witnessed the importance of making spaces and services accessible to all community members. This perspective will drive me to advocate for similar considerations within the LTC's infrastructure and services.
- 3. Personal Experiences:** My interactions with individuals who face accessibility challenges have sensitized me to the daily obstacles they encounter. This empathy drives my commitment to championing accessibility initiatives within the committee, ensuring that London's public transit system accommodates the unique needs of all

residents.

4. Advocacy for Inclusiveness: I am dedicated to engaging with diverse perspectives, including those from marginalized and underrepresented groups, to champion accessibility and inclusiveness. I will actively seek input and feedback from these communities, ensuring their concerns are addressed in the committee's decision-making processes.

5. Continuous Learning: I recognize that the landscape of accessibility is dynamic and continually evolving. I am committed to staying informed about best practices and emerging trends in accessibility. This ongoing education will enable me to contribute effectively to the LTC's efforts to enhance accessibility.

In summary, my multifaceted engagement with accessibility-related initiatives, along with my professional background, empowers me to play a pivotal role in advancing accessibility and inclusiveness within the Board and Committee work. I am dedicated to ensuring that London's public transit system is accessible and welcoming to all residents, regardless of their abilities or backgrounds.

Attach resume or other document here, if needed: **Resume Certifications.pdf**

Attach more files here, if needed:

Confirmations

I declare the following: **I am a resident of London. ; I am at least 18 years old.; I am not a City employee or Council member.; I understand that my application and any attachments will be included on a public agenda that is published on the City website.**

To help inform our outreach activities, please tell us how you heard about this opportunity: (optional):

If you selected 'Other', please specify:

Submitted on: **9/8/2023 9:13:41 AM**

Eric Franke

Senior Electrical Designer, P. Eng, PMP

Contact

London ON, N5X1A5

Skills Summary

- Lead the electrical design, programming and on-site commissioning of projects (\$50k-5M) utilizing PLC's, robots, motion control and vision systems to provide turnkey solutions for the customer with NPS (Net Promoter Scores) ranging from %90-100.
- Programmed (PLC) solutions for customers in the food, energy and waste industries
- Experienced with CSA and NFPA electrical design standards as well as CSA/PHSR machine safety requirements (eg Z432-16)
- Background in industrial automation from experience at Hardie, ESAC and JMP Solutions
- Obtaining IBM Data Science Certificate, on-track for September 2023

Certifications	Issued/License No.	Education	Issued
Professional Engineer (P. Eng) Professional Engineers Ontario	Apr 2020/ 100227808	Bachelor of Engineering Lakehead University, Thunder Bay, ON, CA	2015
Project Management Professional (PMP) PMI Institute	May 2023/ 3540436	Electrical Engineering Technology Fanshawe College, London, ON, CA	2011

Engineering Projects

PLC, SCADA and Robotics Programming

- Lead 4 separate \$3M+ projects with multiple interacting palletizing and case packing robots, and programmed PLC, robots, HMI's, Cognex and Keyence vision tools
- Worked with a team to program and test a \$10M+ robotic pick and place system for egg rolls
- Integrated plantwide Factorytalk SCADA with new ammonia spiral freezers through NAT, Managed Switch and VLAN configuration for the food industry

Electrical Design

- Completed electrical design for plant wide installations involving dozens of VFD's, hundreds of feet of conveyor, safety systems (area scanners, light curtains etc), robotics, stretch wrappers
- Used Autocad, Autocad Electrical and ePLAN to complete the designs

Mechanical Design

- Designed various mechanical parts & assemblies such as hatches, plates & plate armour, bracketry while following GD&T, weld design standards
- Worked with automotive production and engineering design to maintain revision compliance with light armoured vehicles in production and in the field in a unionized environment
- Drew upon real-world commissioning experience to influence mechanical design with regards to conveyor layout and action, as well as machine/robot placement

IoT, IT/OT

- Participated in initial concept and installed a secure end to end automated solution for OEE metrics of various customer equipment from wind farms to chicken plants to provide value added information to the customer, such as uptime, faulted time, "best shift" etc (Azure, PowerBI)
- Involvement with improving existing OT networks, with regards to segmentation (DMZ), following converged plantwide ethernet (CPwE) best practices

Work Experience

Trojan Technologies (subsidiary of Veralto)

London, ON

- Recruited to perform electrical design for continental and international wastewater projects
- Motivated the team to change design software from Autocad to Solidworks Electrical

JMP Solutions

London, ON

- Managed schedules, vendors, customers, budgets and industrial automation projects from \$5k-3M

Hardie Industrial Services

London, ON

- PLC programming, design and commissioning of automation processes for a variety of industrial customers (food, waste processing, automotive), involvement with IT/OT projects
- Strong focus on HVAC and refrigeration programming/integration

ESAC

London, ON

- Jumped into electrical design for a dual hydroelectric generator overhaul
- Path loss studies to estimate microwave link budgets for wind/co-generation station transfer trips
- Designed a data collection system using cloud services and business intelligence programs for utility customers to monitor OEE (Overall Equipment Effectiveness) metrics (SQL, PowerBI)

JMP Solutions

London, ON

- Lead robotic (Fanuc) and PLC (Rockwell) programming solutions in multiple projects in food, oil & gas and consumer packaged goods industries for international customers
- Performed electrical design (Autocad Electrical, ePLAN) on multiple projects in the above industries

General Dynamics Land Systems Canada

London, ON

- Worked in both design and production to solve build issues
- Mechanical product design using Teamcenter and GD&T principles, ensured a smooth introduction of parts to the process flow

Milacron

Georgetown, ON

- Performed final inspection and tested heat control units for hot-runner plastic injection molding systems

Communications & Power Industries

Georgetown, ON

- Worked in the R&D department to research methods for detection of high current arcs in X-Ray generators
- Designed, constructed, tested and documented a successful arc detection circuit using LTSPICE

Communications & Power Industries

Georgetown, ON

- Tested travelling wave tube (TWT) amplifiers (commercial, military)
- Utilized Agilent vector and power spectrum analyzers, signal generators & other RF equipment

Senior Electrical Designer

Jan 2022 – Present

Project Manager

May 2021 - Jan 2022

System Integrator

June 2020 – May 2021

Software & Graphics Designer

Dec 2019 – June 2020

Robotics & Controls Specialist

Electrical Designer

Oct 2016 – Dec 2019

Liaison Engineer (Contract)

Oct 2015 – Oct 2016

Test Technician (Temp)

Mar 2015 – Sep 2015

Hardware Engineering Intern

May 2014 – Aug 2014

Test Technician

Summer 2013 &

May 2011 – June 2012

Volunteer Work

Engineer in Residence

Resource for A.B. Lucas Secondary School, developing students and assist with robot competitions

Sept 2022 - Present

FIRST Robotics Competition

Assisting in FIRST robotics competition events

June 2018 – Jan 2019

ReForest London

Assisting with planting trees for residents in London

June 2016 – June 2017