Obiee Etleb P.Eng

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PROFESSIONAL EXPERIENCE

Metrolinx — Toronto, Canada
Autonomous Track Testing Inspection (ATTI) Manager - Track AM&M — 04/2025 – Present

- **Program Leadership:** Lead the delivery of $23 million autonomous regulatory testing and inspection services across the GO Transit rail network, ensuring schedule compliance, safety, data quality and regulatory adherence.
- **Technical Oversight:** Provide engineering expertise in track geometry, rail wear, tie and ballast condition, and longitudinal restraint assessments to inform strategic asset investment decisions.
- **Vendor & Contract Management:** Oversee vendor performance and enforce contract compliance, leading procurement activities from technical specification development through to award recommendations.
- **Risk & Compliance:** Serve as the accountable party for infrastructure compliance under ATTI services; identify risks and manage corrective action plans to meet regulatory standards and safety requirements.
- **Data-Driven Maintenance:** Monitor and validate inspection data quality, using asset condition trends to recommend localized or system-wide State of Good Repair (SOGR) programs and preventative maintenance strategies.
- **Stakeholder Collaboration:** Coordinate with Network Operations Centre, Track and Fleet Maintenance Delivery, Rail Service Design, and external rail partners to deliver testing programs with minimal operational disruption.
- **Standards & Innovation:** Contribute to the development of Metrolinx Track Standards, apply lessons learned, and integrate new technologies and processes to improve inspection accuracy and program efficiency.
- **Incident Response & Investigation:** Lead or support incident investigations and track slow order triage, implementing strategies that enhance network safety, reduce operational risk, and improve on-time performance.
- **Budget & Strategic Planning:** Manage OPEX budgets and contribute to long-term capital planning, aligning autonomous inspection services with corporate goals and future infrastructure needs.
- **Leadership & Team Development:** Direct cross-functional teams, define individual development goals, and provide coaching to drive performance, ensure high-quality service delivery, and foster a strong safety-focused culture.

Metrolinx — Toronto, Canada
Engineering Lead – Track Asset Management & Maintenance (AM&M) — 10/2024 – 04/2025

- **Asset Management:** Oversee track assets valued at $3.8 billion using Hexagon EAM, ensuring data accuracy and implementing SoGR practices and advanced technology to ensure assets are safe, reliable, and fit for purpose.
- **Risk & Failure Analysis:** Led risk register initiatives and resolved track compliance issues using RCM, RAM modelling, and FMEA to proactively identify risks, mitigate failures, and enhance system reliability.
- **Strategic Analysis:** Partnered with Global Rail Group to deliver a grinding and milling cost-benefit analysis with detailed intervention locations by phase, resulting in approval of a $16M project to mitigate accelerated rail wear.
- **Data Quality Review:** Responsible for reviewing data from Ballast GPR, LORAM Aurora tie condition, and rail surface surveys, identifying data gaps and calibration issues.
- **Cost Efficiencies:** Spearheaded the implementation of Asset Handover automation, streamlining documentation and communication workflows, reducing manual processing time, and sustainably improving project closeout accuracy. This solution is projected to save over $300,000 annually within the Track business unit. Additionally, through in-depth risk based root-cause analysis, identified a more cost-effective alternative for an approved $6 million project by acquiring a $150,000 seized clip extractor from Australia, ultimately saving Ontario taxpayers over $5.5 million.

Metrolinx — Toronto, Canada
Reliability and Assurance Specialist – Track AM&M — 09/2022 – 10/2024

- **On-Site Validation:** Oversaw and validated scheduled calibration and maintenance activities for track geometry measurement system (TGMS), ensuring measured gauge, crosslevel, alignment, profile, curvature, warp is accurate.
- **Data Analysis and Reporting:** Applied advanced data modeling techniques to analyze and report on key metrics, including the Track Quality, Rail Flaw, Rail Wear, Rail Cant, Ties and Ballast Fouling Indexes.
- **Mentoring and Leadership:** Onboarded an analyst and fostered a culture of continuous improvement by mentoring on best practices in Track Maintenance, RAMS, data analytics, ensuring technical excellence in project execution.

- **Data Digitization and Predictive Maintenance:** Utilized Python and Power Automate to digitize hundreds of strip chart PDFs on track geometry, rail wear, rail cant, defective ties, and ballast conditions reducing review time by over 9%. Developed predictive maintenance models using Python and Excel VBA, supporting a 10-year SoGR plan for track.
- **Process Automation:** Led the automation of the Site Observation Tracker and Asset Handover through Power Apps and Power BI, significantly enhancing efficiency and generating actionable insights.
- **Strategic Planning and Funding:** Spearheaded the development of the annual Asset Management Plan for the Track business unit, successfully securing over $125 million in funding from the Investment Panel (IP).

PNR Railworks   Toronto, Canada
Project Engineer – Track and Signals   08/2019 – 09/2022
- Provided technical expertise to contract development and the implementation of capital rehabilitation programs across both passenger and freight corridors, ensuring alignment with engineering standards and asset needs.
- Inspect track and signal work completed by contractors and approve track conditions for safe revenue service.
- Complete daily tasks while consistently meeting or exceeding corporate targets for safety, quality, and profitability.
- Ensured all field personnel fully adhered to engineering instructions for inspections, maintenance, and construction, in accordance with CN Engineering Standards, GO Transit Track Standards, and Transport Canada regulations.
- Serving as the main liaison between PNR Engineering and Alstom/WSP Engineering, participating in industry and company workshops, chairing engineering/quality weekly meetings, and presenting new process flows to client.
- Developed detailed work plans and track and signal engineering drawings to enhance operational efficiency and support GO Transit's service reliability and customer satisfaction goals.
- Authored several client-accepted technical manuals including Fiber Optic Maintenance and Concrete Mix Design

Parsons Corporation   Toronto, Canada
Rail and Transit Design Engineer   06/2018 – 08/2019
Projects: Several GO Station Design Upgrades RER, Metrolinx Regional Express Rail Signaling Upgrades
- Designed multiple LRT alignment options to connect future Pearson Airport transportation hub to Toronto subway.
- Produced drawings displaying alignments and profile options, station sites to present to the public.

Curiato Inc   Waterloo, Canada
Lead Production Manager/Project Engineer   11/2015 – 10/2019
Project: Flexible Printed Circuit Board Production
- Designed and 3d-printed prototype electrical coupling module to connect 18 sensor boards used to collect patient data, after several design iterations I oversaw the overseas production and delivery of approximately 5000 modules.

Parsons Corporation   Markham, Canada
Safety Engineer   09/2017– 12/2017 & 04/2016 – 08/2016
- Presented weekly safety meetings to brief staff and clients of possible safety issues and present recent near misses.
- Drafted monthly reports summarizing safety issues and potential risks in current construction processes.

<div align="center">Professional experience prior to 2016 is available on my personal website or <u>LinkedIn</u> profile.</div>

EDUCATION

Bachelor of Applied Science, Civil Engineering	09/2013 – 04/2018
University of Waterloo	Waterloo, Canada
Railroad Track Engineering (CEE 409)	04/2025 – 10/2025
University of Chicago, Online	Chicago, USA

CERTIFICATIONS

Reliability Centered Maintenance – Reengineered (RCM-R)	01/2025
Conscious Asset	Toronto, Canada
Canadian Method on Risk Evaluation and Assessment (CMREA) for Railway Systems	06/2024
Ricardo	Toronto, Canada
Reliability Centered Maintenance - Optimize Asset Management	06/2022
Udemy Course, Online	
Python for Data Science and Machine Learning	05/2022 – 10/2023
Udemy Course, Online	