

STEPHONIS MURADO

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EDUCATION

WESTERN UNIVERSITY

Expected May 2028

Bachelor of Engineering Science (Chemical Engineering)

London, ON

- Western Scholarship of Distinction (2024)

Chemical Engineering student with co-op experience in process operations, technical analysis and engineering support. Experience with Aspen HYSYS, SCADA, Power BI and process-safety fundamentals including HAZOP.

WORK EXPERIENCE

CITY OF LONDON – WASTEWATER TREATMENT OPERATIONS

May 2026 – Sept 2026

Chemical Engineer (Co-op)

London, ON

- Assessed process performance across 5 wastewater treatment plants through regular site visits, reviews of operating conditions and flow data, and technical summaries for engineering and operations staff.
- Analyzed SCADA trends across 30+ wastewater and pumping sites to identify operating anomalies.
- Supported operational decision-making across multiple facilities by calculating hydraulic retention times, reviewing pump performance and summarizing capacity-related findings from plant data.

GOLD LEVEL CONTRACTING

May 2025 – Sept 2025

Junior Estimator & Technical Support (Co-op)

London, ON

- Prepared material takeoffs and cost estimates from 20+ construction drawings, tracking quantities, scope changes and assumptions to support pricing and coordination across residential projects.
- Documented field issues during 50+ site inspections and coordinated next steps with supervisors and trades.
- Improved estimate accuracy by 50% from verifying quantities, drawings and site conditions.

IRONSTONE BUILT

Sept 2022 – June 2023

Construction Assistant

London, ON

- Contributed 220+ hours to residential builds by completing framing, insulation and finishing tasks from drawings, assisting site crews and maintaining safe, organized work areas.
- Helped 5+ trades complete site layouts by reading blueprints and checking measurements.

MCDONALDS (GIOPALM GROUP INC.)

London, ON

Team Leader

Feb 2024 – May 2025

- Directed 20+ crew members per shift, assigning stations and adjusting coverage as demand changed to maintain accurate orders and steady service.
- Resolved customer and crew issues while keeping the shift organized during peak periods.
- Maintained service flow by reallocating crew and resolving station bottlenecks.

Crew Trainer

May 2023 – Feb 2024

- Trained 5+ new hires in food preparation, service procedures and safety standards, demonstrating tasks and giving feedback as they learned each station.
- Supported new crew members during rushes and helped correct order issues quickly.
- Improved new-hire readiness through hands-on coaching and performance feedback.

Crew Member

May 2022 – May 2023

- Managed 100+ orders per shift across food preparation and customer service, checking accuracy and coordinating with teammates to keep service moving during rushes.
- Restocked stations and maintained food-safety standards throughout high-volume shifts.
- Supported peak-hour service by rotating between kitchen and service stations, dropping wait time by 25%

KELSEY'S ORIGINAL ROADHOUSE

Sept 2022 – June 2023

Host/Expo

London, ON

- Managed seating, reservations and front-desk service during busy dining periods, coordinating table availability with servers and the kitchen to keep guest flow organized and reduce delays.
- Answered guest questions using knowledge of 50+ menu items and supported food running and table turnover

PROJECTS

CANADIAN NUCLEAR LABORATORY (CNL) CASE COMPETITION (5th Place) Winter 2026

- Analyzed 3 reactor system failures affecting controls and monitoring to develop a safe emergency response.
- Created recommendations addressing reactor operation, radiation exposure and crew protection, presenting the team's solution to CNL judges in a 5-minute technical pitch.

CHEMICAL ENGINEERING CASE COMPETITION - DeepSeaH₂ (3rd Place) Fall 2025

- Evaluated 5+ materials for a hydrogen system, comparing structural performance and design trade-offs.
- Presented material analysis and recommendations in a 10+ page report and presentation to judges.
- Developed a hydrogen-system design package that brought the material comparisons into a final design.

JUNIOR ENGINEERING CASE COMPETITION (5th Place) Fall 2025

- Designed and tested a buoy through 3+ iterations, refining the design based on test results.
- Analyzed test results and explained design decisions, limitations and trade-offs to competition judges.
- Coordinated design decisions across a 4-person team to improve prototype stability and competition readiness.

SELF-POWERED WATER FILTRATION SYSTEM (People's Choice Award) Fall 2024

- Designed a portable filtration and UV-disinfection prototype estimated to reduce water turbidity by 70%.
- Developed CAD models and built 2 prototypes, using flow tests to identify issues and refine the design.
- Integrated filtration and UV disinfection into a self-powered system designed for remote communities.

LEADERSHIP & COMMUNITY EXPERIENCE

WESTERN CHEMICAL ENGINEERING CLUB Sept 2025 – May 2026

Club Member – Events & Outreach Support

London, ON

- Helped plan 3+ technical, networking and social events, coordinating costs, prizes and event logistics.
- Contacted industry sponsors and supported outreach for Chemical Engineering Night and other club events.
- Collaborated with 5+ executive members to support event planning, sponsorship and student engagement.

SAINT JOSEPH'S CHALDEAN CATHOLIC CHURCH

London, ON

Youth Mentor & Educator

Sept 2022 – June

2025

- Led weekly lessons for Grade 5–6 students, preparing activities and guiding group discussions.
- Worked with 30+ families and volunteers to support student learning and community events.
- Prepared and delivered lessons covering 10+ topics for students with different learning needs.

Media Arts Manager

Dec 2020 – Sept

2022

- Created promotional materials and coordinated volunteer roles for food drives, holiday donations and international relief initiatives.
- Managed campaign messaging and delivery logistics for community outreach projects.
- Created content across 3+ media formats to promote community events and charitable initiatives.

Regina Mundi Catholic College

Sept 2023 – June 2024

Grade 12 Peer Tutor – Mathematics & Science Tutor

London, ON

- Tutored students across multiple grade levels in Advanced Functions, Physics, Chemistry and other university-preparation courses, explaining concepts and helping with homework and test preparation.
- Stayed after school to provide one-on-one and small-group academic support, adapting explanations to different learning levels and helping students work through challenging problems independently.

TECHNICAL SKILLS

- Software & Data: Aspen HYSYS, Microsoft Excel, Power BI, SCADA, AutoCAD, and Onshape.
- Process & Equipment: Process simulation, PFD/P&ID interpretation, pump-performance analysis.
- Safety & Reliability: HAZOP, process-safety fundamentals, and technical documentation.

Certifications & Training: WHMIS 2015, Laboratory Safety Training, Safety Data Sheets (SDS) & Chemical Hazard Training.