Bogdan Kutsenko

linkedin.com/in/bogdankutsenko | kutsenb159@gmail.com | 647-860-6435 | kutsenb.dev

Education

Lassonde School of Engineering, York University Toronto, ON
Bachelor of Engineering (Honours), Mechanical Engineering 2023 – 2027

Work Experience

Steamoji Newmarket, Business Development Associate Oct 2026 – Present

- Leading facilitator recruitment for a pre-launch STEM academy, building a ranked pipeline of postsecondary channels and institutional contacts and developing the outreach strategy.

Steamoji Kelowna, Robotics Curriculum Developer | *VEX IQ, VEXcode IQ* Jul 2026 – Oct 2026

- Authored step-by-step robotics curriculum for learners aged 12 and up across VEX IQ, Dogzilla Lite, myCobot 280, and Litebee drone platforms, including an eight-project VEX IQ autonomous programming series.
- Designed the programming sequence to build from a single drive command to a full sensor-driven decision loop.
- Tuned colour-detection thresholds to readings measured under the academy's own lighting, and reworked three projects around the two-motor Clawbot build following client review.

FanRyng, Strategy Lead Aug 2026 – Sep 2026

- Led fan engagement research across 11 Indiana NCAA D1 schools, developing a scoring methodology that ranked mini-game and prize options by sponsor fit and audience relevance.
- Built school-specific fan profiles from census and behavioural data to recommend a hybrid engagement strategy, balancing scalable core content with school-level customization.

Owning My, Client Acquisition Researcher Apr 2026 – May 2026

- Researched and evaluated C-suite acquisition channels for an AI leadership coaching firm, developing an Ideal Client Profile and synthesizing market trends, including a finding that 54% of B2B shortlists are AI-influenced, into a research brief.
- Co-developed a client acquisition strategy deck comparing direct mail, contextual ads, and AI visibility to recommend a thought leadership model for reaching executives.

Projects

Capstone: Laser Weeding Robot for Homes and Small Farms Fall 2026 – Present

- Building a battery-powered laser weeding robot with a trainable computer vision weed identifier and emergency stop.

IoT Solar Tracking System | *Arduino MKR 1010, Sensors, CAD* Winter 2026

- Designed and built a floating solar platform with autonomous sun tracking to improve energy capture.
- Integrated light sensing with dual-axis servo actuation and implemented wireless monitoring via Arduino IoT Cloud.

Automated Security and Object Tracking System | *LabVIEW, DAQ, Sensors* Fall 2025

- Built a LabVIEW control system integrating ultrasonic sensors and DAQ hardware for two-axis object tracking.
- Documented calibration and testing results and prepared improvement notes for future iterations.

Remote-Controlled Medical Rover | *Arduino, Ultrasonic Sensors* Winter 2025

- Designed and prototyped a medical transport rover with Ackermann steering for navigation and obstacle avoidance.
- Recorded test data, created wiring diagrams, and wrote build and troubleshooting documentation.

Extracurriculars

Google Developer Group YorkU: Selected to attend an AI and infrastructure event at Google Toronto HQ (Aug 2026)
Lassonde Bridge Building Competition: 2nd place with a structurally optimized bridge under load limits (Oct 2023)

Skills

Programming	Python, Java, Arduino (C/C++), HTML/CSS, JavaScript (basic), VBA (basic)
Hardware	Arduino, sensors and actuators, DAQ systems, control systems
Software	SolidWorks, AutoCAD, Fusion 360, STAR-CCM+, LabVIEW, MATLAB, Microsoft Excel, Git/GitHub
Coursework	Thermodynamics, Fluid Dynamics, Heat Transfer, Control Systems, Machine Elements Design