Ario Barin Ostovary

abostova@uwaterloo.ca | +1 226-739-3370 | ariobarin.com | linkedin.com/in/ariobarin | github.com/ariobarin

TECHNICAL SKILLS

Languages: Python, C/C++, TypeScript, JavaScript, Java, SQL, Bash, Assembly
ML & robotics: PyTorch, LeRobot, ACT, OpenCV, scikit-learn, XGBoost, PPO/SAC, Gymnasium, SLAM
Systems: MCP, LangGraph, FastAPI, Node.js, React, PostgreSQL, Docker, Linux, Git

EXPERIENCE

Kado *Robotics startup* *Waterloo, ON*
Cofounder Sep 2026 - Present

- Building robots that **assemble and test hardware prototypes**; experimenting with ACT, VLAs and world models on the LeRobot SO-101.
- Built ACT training and inference pipelines for the SO-101; policies that broke under lighting and background changes led to a controlled enclosure for data collection and simulation.

Huawei *Web Team* *Markham, ON*
Browser Agent Researcher ariobarin.com/huawei May 2026 - Aug 2026

- Built WebMCP tools and adapted open-source LLM agents to use them alongside browser interactions; benchmarked them on 11 sites, WebArena plus mocks of popular Chinese sites, across **80,000+ task runs**.
- Proposed research questions and designed and ran evals comparing task completion, token use and execution steps; analyzed agent behavior to explain differences and choose follow-up experiments.
- Consolidated agent runners into a shared evaluation pipeline and automated overnight benchmarks; enabled shared model serving on three DGX Spark systems (GB10) and eight RTX 4080 SUPER GPUs.

University of Windsor *AI Robotics Center* *Windsor, ON*
Research Assistant ariobarin.com/pollinator Jun 2024 - Jan 2025

- Built a camera-guided pollination robot with vision and arm control, achieving **±5 mm** targeting on a UR5e.
- Fine-tuned YOLO and Faster R-CNN for lab lighting, then isolated depth-projection and camera-to-arm transform errors to correct targeting.
- Designed and 3D-printed the camera-and-brush mount; later ported and tested the control software on xArm.

PROJECTS

RealBot ariobarin.com/realbot *Hack the North 2026: 1st Place, Best Use of BracketBot*

- Built a LeRobot **ACT training and inference** pipeline for a remote apartment-tour prototype; deployed a door-opening policy on Jetson Orin Nano.
- Cached frozen ResNet-18 features to train locally in about an hour, avoiding shared GPU queues.

Glossa ariobarin.com/glossa *TypeScript, Node.js, MCP*

- Built an open-source MCP service so ChatGPT can **edit code and run commands** on a user's computer.
- Designed a hosted relay and outbound worker so users could connect without hosting or exposing a server.

eValuator ariobarin.com/evaluator *Python, XGBoost, scikit-learn, FastAPI*

- Built a live Hypixel SkyBlock auction tool from **12M+ listings**; trained XGBoost sale-probability models.
- Ranked opportunities by calibrated sale probability, profit and liquidity, not price margin alone.

AWARDS

Hackathons: Best Overall at MasseyHacks X and XI, 3rd Overall at DeltaHacks, ElevenLabs prize at ListenHacks
Robotics: FIRST Robotics design team lead (team 4903); competed at the FRC World Championship (2023)

EDUCATION

Bachelor of Software Engineering (BSE), Honours, Co-op | GPA: 89% Sep 2025 - Apr 2030 (expected)
University of Waterloo, Waterloo, ON