Alexander Porrone

Operational Technology Manager

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PROFILE

Product and platform leader with a mix of implementation experience, business strategy, and operational ownership. Currently leading Factory of the Future initiatives at Magna International, owning the strategy, financial performance, and lifecycle management of advanced automation platforms. Experienced in delivering complex, safety-critical systems from early concept through production, with a strong focus on reliability, compliance, and measurable business outcomes.

EDUCATION

2015 – 2019 London, ON, Canada	**Bachelor of Arts, Honors Business Administration (HBA)** *Ivey Business School, Western University* Dean's Honor List, 2015 – 2019
2013 – 2019 London, ON, Canada	**Bachelor of Engineering Science, Mechatronic Systems Engineering with Professional Internship** *Western University* Dean's Honor List, 2013 – 2019

WORK EXPERIENCE

2024 Oct – Present Windsor, ON	**Magna International – Integram Windsor Seating** *Operational Technology Manager | Factory of the Future*

- Oversee the strategy, roadmap, and execution of all operational technology entering the plant, including industrial robotics, autonomous mobile robots (AMRs), and emerging autonomous platforms.
- Lead the Factory of the Future program, identifying, piloting, and scaling new technologies to improve safety, throughput, flexibility, and cost per unit.
- Manage the capital planning, fiscal performance, and lifecycle ownership of all automation assets, ensuring investments meet ROI, uptime, and reliability targets.
- Directed plant-wide deployment of the KUKA AMR platform, including vendor evaluation, use-case definition, operational KPIs, and integration with production workflows.
- Established governance models for equipment performance, availability, and risk, aligning engineering, operations, maintenance, IT, and external partners.
- Act as the primary interface between vendors, integrators, and internal stakeholders, translating operational needs into technical, commercial, and safety requirements.
- Currently leading feasibility and risk analysis for Unitree humanoid robotics, evaluating safety, scalability, regulatory considerations, and long-term operational value.

Convergix - Automation & Robotics 🔗

2022 – 2024 London, ON	*Engineering Manager - Robotics and Controls*

- Led end-to-end delivery of complex automation platforms, from requirements definition through deployment and warranty support.
- Managed performance, development, and career progression for a 23-person multidisciplinary team, implementing structured performance planning and skills matrices.
- Served as the central coordination point between customers, internal engineering teams, and external suppliers, ensuring alignment on scope, timelines, and outcomes.

- Implemented cross-segment and inter-company resource sharing across seven business units and three companies, stabilizing delivery and avoiding layoffs during demand downturns.
- Improved predictability and delivery outcomes by introducing standardized project governance, risk planning, and execution frameworks.

2020 – 2022
London, ON

Team Leader - Robotics and Controls
- Accountable for staffing, performance reviews, and technical leadership of a team of seven engineers.
- Defined and documented engineering and programming standards to ensure consistency, quality, and maintainability across projects.
- Collaborated with peer leaders to plan resources, manage capacity, and deliver multiple concurrent projects successfully.
- Reinforced a culture of accountability, transparency, and continuous improvement across the team.

2019 – 2020
London, ON

Robotics and Controls Specialist
- Delivered automation systems for high-volume manufacturing environments, supporting system integration, testing, and customer deployment.
- Applied project planning and risk mitigation practices to deliver systems on time and under budget.

2017 – 2018
London, ON

Startech.com 🔗

Product Developer / Product Tester
- Collaborated with international vendors and internal teams to guide new products from concept through launch readiness.
- Participated in iterative design reviews, identifying deficiencies and driving corrective action prior to release.
- Developed internal Excel VBA tools to automate repetitive workflows, improving efficiency across multiple departments.

PROJECTS - VIDEO LINKS BELOW

2021 – 2022

Robotic Automated High Speed Sandwich Assembly 🔗
JMP Solutions
- Led development of a fully automated, high-speed food assembly platform integrated with packaging systems.
- Awarded Second Place at the FANUC Authorized Systems Integrator Conference.
- Programmed a dynamic PID loop to synchronize a timing wheel and conveyors used in bread separation.

2013 – 2019

Western SAE Formula Racing Club - Electric Race Car 🔗
High Voltage Electrical Team Lead
- Led design and delivery of a 400V electric powertrain system, including battery architecture, safety systems, and validation.
- Mentored junior engineers and established documentation and safety standards to ensure continuity across competition years.

PERSONAL ENDEAVORS

Self Hosted Services
- Self-hosted Actual Budget for personal wealth management with SimpleFIN integration
- Docker containerization for self-hosted financial and productivity services
- Unraid server setup and management with focus on reliability, backups, and data integrity
- Personal website hosting and maintenance
- Nginx reverse proxy for secure service access
- WireGuard VPN for encrypted remote connectivity

Programming Skills
- Data scraping, processing, and automation in Python
- Remote development environments (self-hosted VS Code) for rapid prototyping
- Data analysis and visualization using R
- Quantitative modeling and scenario analysis
- System simulation and behavioral modeling
- Excel VBA tools for workflow automation
- Excel-based regression, solver, and simulation analysis