

Robin O'Brien

Technology Strategy | AI Enablement | Operational Systems

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PROFESSIONAL PROFILE

Technology professional with a 14-year foundation in manufacturing IT and business-critical software. Translates operational problems into dependable applications, reporting, automation, infrastructure, and practical modernization plans. Now designs and ships independent software while developing human-governed approaches to AI-enabled work. Brings structure to complexity, communicates technical choices clearly, and carries solutions from discovery through implementation, adoption, and support.

STRATEGIC FIT

- AI enablement and workflow automation: designs reviewed, human-controlled AI workflows that improve capability without treating AI output as automatically trustworthy.
- Technology roadmapping and modernization: evaluates business value, dependencies, security, maintainability, adoption, and operational risk before sequencing solutions.
- Stakeholder leadership: turns factory-floor and business complexity into clear requirements, priorities, decisions, ownership, and actionable reporting.
- Operational maturity: replaces manual and error-prone processes with scalable applications, data pipelines, dashboards, automation, documentation, and durable support practices.

PROFESSIONAL EXPERIENCE

Independent Software Developer / Product & AI Systems Builder

Moving Truth | Self-employed | May 2026 - Present

- Own product direction, architecture, design, development, testing, accessibility, privacy, release, documentation, and iteration for an independent family of applications and web products.
- Designed, built, and independently published **Inner Whisper** and **Inner Thought**, native SwiftUI applications available on the App Store; delivered both from initial concept through production release.
- Established reusable product principles across five app concepts, including privacy by design, accessibility from the beginning, calm interaction, and maintainable shared patterns.
- Built multilingual web and product experiences, deployment workflows, localization systems, accessibility improvements, and supporting automation.
- Developing the Moving Truth AI Bridge, a private human-governed framework for coordinating multiple AI providers through scoped tasks, approvals, authority boundaries, durable records, file leases, audit trails, independent review, and verified handoffs.

IT Specialist & Principal Application Developer

Toyota Boshoku | Elmira, Ontario | Feb 2012 - May 2026

- Supported office and production technology while serving as the principal developer of custom internal applications in a high-availability manufacturing environment.
- Designed and maintained business-critical VB.NET applications for KPI tracking, health and safety reporting, production sequencing, HR kiosks, inventory, and workflow management.
- Connected custom applications to PLCs and SQL Server for reliable, real-time capture of production counts, machine status, and quality data.
- Replaced labour-intensive reporting with scheduled SSRS workflows and automated distribution; one recurring process fell from 2-4 hours to under 5 minutes while improving consistency and visibility.

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TOYOTA BOSHOKU EXPERIENCE - CONTINUED

- Administered Windows, Active Directory, Group Policy, virtual and physical environments, remote systems, and IBM AS/400 DB2 integrations across multiple locations.
- Identified security threats and supported recovery from a major cybersecurity incident, including restoration work and stronger operating protocols.
- Worked directly with production, HR, health and safety, management, users, vendors, and technical teams to translate operational problems into maintainable solutions.
- Built and supported resilient 24/7 KPI, inventory, safety, reporting, and production-data systems with strong error handling, troubleshooting, monitoring, and operational follow-through.
- Documented decisions, requirements, ownership, and support practices so improvements could be adopted and sustained beyond initial delivery.

SELECTED IMPACT

- **Automated reporting:** transformed recurring manual reporting from hours of compilation into scheduled, reliable output produced in minutes.
- **Production visibility:** integrated PLC and SQL Server data to replace manual entry and give management timely operational information.
- **Operational applications:** delivered production-grade tools used continuously for KPI, inventory, safety, HR, sequencing, and workflow needs.
- **Cybersecurity and resilience:** contributed to threat identification, incident recovery, restoration, and stronger operating protocols in a real production environment.
- **Digital product delivery:** independently carried two privacy-conscious native applications from concept through App Store release while establishing scalable patterns for a broader product portfolio.
- **AI governance:** designed structured controls for scope, approvals, authority, auditability, concurrent work, evidence, and verification across multiple AI providers.

CORE CAPABILITIES

Strategy & Delivery: technology assessment; modernization planning; workflow analysis; requirements discovery; roadmap sequencing; operational maturity; documentation; adoption support

AI & Automation: AI-enabled workflows; human-in-the-loop governance; multi-agent coordination; process automation; Python; prompt and verification design; AI-assisted development

Applications & Data: VB.NET; C#; Swift; SwiftUI; SQL; Python; SQL Server; SSRS; KPI dashboards; APIs and system integration; Git; reporting and data pipelines

Infrastructure & Industrial IT: Windows; macOS; Linux; Active Directory; Group Policy; virtualization; IBM AS/400 DB2; PLC integration; OPC/Modbus; remote administration; 24/7 operations

Security & Reliability: incident response; threat identification; recovery support; privacy by design; monitoring; resilient application design; controlled access; supportability

Leadership & Communication: cross-functional coordination; management-ready explanations; recommendation writing; prioritization; calm issue ownership; end-to-end delivery

EDUCATION & DEVELOPMENT

Network Engineering & System Administration

Conestoga College | Kitchener, Ontario | 2010 - 2011

- Ongoing independent development in AI systems, software architecture, cybersecurity, industrial automation, and modern application delivery.
- Ignition Platform certification studies.

PORTFOLIO

Selected systems, case studies, and current product work: robinobrien.me | Public development work: github.com/MovingTruth