

WYATT GOODLET, P.Eng

Structural Engineer • Software Developer • AI & Automation

[City], Ontario | [phone] | wyguy@chartjunk.rip | [linkedin.com/in/\[handle\]](https://linkedin.com/in/[handle]) | wy.itgood.ca

PROFILE

Licensed structural engineer (P.Eng, Ontario) and self-directed software developer with 10+ years at a structural consulting firm — the first six delivering commercial, institutional, and residential building projects, and the past four designing and building the firm's proprietary engineering software stack and complete IT infrastructure. Deep, practical experience shipping production software with modern AI-assisted (agentic) development workflows. Comfortable owning problems end-to-end, from sealed structural designs to deployed systems. Available for contract and project-based engagements.

CORE COMPETENCIES

Engineering: Structural design & analysis (steel, concrete, wood, masonry) • Ontario Building Code Part 4/9 • CSA A23.3, S16, O86 • Project management & coordination • Drawing review & construction administration • [analysis software — e.g., S-Frame, SAP2000]

Software & IT: Full-stack development ([Python, TypeScript, ...]) • AI-agent development workflows (Claude Code[, others]) • Engineering calculation & workflow automation • Data pipelines & backtesting systems • Server administration, networking & security • Web development

PROFESSIONAL EXPERIENCE

J.P. Samuel & Associates Inc. — Structural Engineering Consultants

Ancaster, ON (Remote)

Consulting Engineer — Software, IT & Engineering Systems

2022 – Present

- Designed and built the firm's proprietary structural engineering software stack — automating [design calculations, drawing production, QA checks] — reducing production time on typical projects by [X] %.
- Architected and administer the company's full IT environment (servers, networking, backups, security), supporting [X] staff.
- Adopted AI-assisted agentic development workflows early, delivering production tools solo at a pace that would conventionally require a development team.
- Provide ongoing structural engineering consulting and peer review on active projects; designed and maintain the company website (jpsamuel.com).

Project Engineer — Structural

Feb 2016 – 2022

- Delivered structural design and analysis for [X]+ commercial, institutional, and residential projects across Ontario — steel, concrete, wood, and masonry — from concept design through construction administration.
- Led and mentored a team of technicians and EITs, building core team competencies and measurably improving the quality and consistency of company deliverables.
- Managed scheduling, budgets, and coordination with architects, contractors, and building departments across concurrent projects.
- Licensed as a Professional Engineer (PEO) in October 2020 while in this role.

Earlier Experience

2012 – 2014

- City of Toronto — Project Management Engineering Intern (2014):** municipal construction contract administration, estimating, tender documents, drawing review.
- Region of Peel — Construction Inspector (2012–2013):** inspection of capital watermain, sanitary sewer, and road works; contractor and public liaison.

INDEPENDENT TECHNICAL PROJECTS

- Algorithmic trading research platform:** architected and built a full-stack system for real-time market data ingestion, quantitative analysis, backtesting, and execution tooling ([tech stack]). End-to-end product ownership: design, development, deployment, and operation.
- AI developer toolchain:** built custom agent-based coding workflows and internal tools ([brief examples]) used daily in professional and personal projects.

EDUCATION & LICENSURE

P.Eng — Professional Engineers Ontario

2020 – Present (active)

B.Eng., Civil Engineering (Structural) — McMaster University

2015