

Mike Kapin

Program Coordinator & Professor, Skilled Trades · HVAC Professional · Self-taught AI Builder

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A skilled-trades educator with twenty-plus years in HVAC and a working fluency in AI and software that few educators have. I have been the apprentice, the licensed technician, the business owner, the program coordinator, and the self-taught developer, and I teach from every side of the work. Systems are systems.

AREAS OF EXPERTISE

Trade & technical: G2/G3 gas, CSA B149, refrigeration, AC, heating, controls, diagnostics

Curriculum & instruction: course & assessment design, lab development, UDL, learner-centred design

AI & software: production AI tools, 15+ MCP servers, full-stack PWAs, automation

Leadership & industry: program coordination, two businesses founded, owner-operator experience

EXPERIENCE

Program Coordinator & Professor, Skilled Trades

2017–present

Fanshawe College

- Professor since 2017; program coordinator since 2020. Teach gas technology and coordinate apprenticeship streams.
- Developed and led curriculum across the CSA Gas Technician units, including assessment and instructional design.
- Developed hands-on lab curriculum and equipment for refrigeration, air conditioning, and heating (2020–present).
- Contributed to heat-pump curriculum development across eight Ontario colleges through the HRAI course-development team.
- Apply AI-assisted tools and workflows to modernize teaching and course delivery.

Founder & Owner

2026–present

ServiceFirst HVAC Solutions

- Founded a residential HVAC business and built its entire operating platform: booking, dispatch, invoicing, and an AI call-routing pipeline, automated end to end.

Founder & Owner

2011–2022

Mike's Heating and Home Comfort

- Built and ran a residential heating and cooling business for eleven years: service, installation, gas work, and refrigeration, with a reputation earned one customer at a time.

Automotive industry: technical & middle management

1997–2008

Various

- A decade of technical and leadership roles before retraining into the skilled trades.

EDUCATION

HRAC: Fanshawe College (2009–2011)

Honours graduate; top academic achievement award

Electronics Engineering Technology: Sheridan College (1996–1997)

LICENSES & CERTIFICATIONS

TSSA G2 Gas Technician

TSSA G3 Gas Technician

ODP refrigerant certification (federal); HRAI ODP

Ontario Small Business Certificate (2008)

Manufacturer training (Navien, Lennox/AirEase)

PROFESSIONAL DEVELOPMENT

College Educator Development Program (CEDP): 2022–2024 three-phase Ontario college faculty cohort. Formal training in Universal Design for Learning, EDI and decolonization, authentic assessment, Scholarship of Teaching and Learning, academic integrity, and AI in education.

CSA Communities member & advisor · **TSSA** curriculum involvement

SELECTED SOFTWARE & AI PROJECTS

ServiceFirst platform: full-stack booking/dispatch/invoicing on Cloudflare with AI call routing.

Canadian Code Compass: offline PWA that maps a keyword or plain-language field issue to the right CSA B149 clause, explained in plain terms.

The Edge Ecosystem: three free consumer apps for Ontario draws and hunting/fishing regulations.

15+ Model Context Protocol servers: custom AI tooling for content, automation, and productivity.

RECOGNITION

Ontario Skills Competition: 2nd place, HVAC (provincial, 2011)

CTV W5: national feature (February 2024)

Full portfolio, writing, and project links at mikekapin.com/teaching · © 2026 Mike Kapin