# Shawn F. Murphy

| Berlin & Saltspring | smurp.com | sfm@smurp.com | linkedin.com/in/smurp | +1.650.503.4034 +49.160.462.8556 |
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**Profile:**

*see* full CV

Shawn Murphy is a visionary, innovative and goal-surpassing FOUNDER, CEO, CTO & SOFTWARE ENGINEER with 30+ years of successfully spearheading the execution of organizational visions through bold and solutions-focused business strategies.

- **Software architect**, knowledge engineer, software **developer**, dev team leader, and trainer with vast experience designing and building large data-driven, scientific, academic, collaborative, e-commerce, visualization and publishing systems
- Highly proficient in technical communications as well as diverse programming languages, knowledge representation technologies, frameworks, visualization tools, RDBMSes, ORMs, APIs, standards, methodologies and architectural styles
- Motivated by the observation that exponentiating technologies (AI, nanotech, robotics, biosci) are dominating flatlining wisdom he has led research into solving the human-values alignment problem as a foundation for addressing AI alignment, democratic fragility, irreproducible science, fake news and other conundra
- A visionary leader striving to build out a global-scale knowledge management ecosystem wherein software, knowledge and presentation co-evolve under the pressure of human values, expertise and evidence – to technologically host and ground our collective cognition, so we can meet the challenges of our time

**Professional Specialties:**
Knowledge Representation & Graphs, Semantic Web, Distributed Systems, Version Control, Collaborative Filtering, AI, Agile, RDBMS, Electronic Data Interchange (EDI), ORM, OOP, Functional, Cognitive Computing, Dynamic Graphics, Pattern Languages, DevOps, FOSS, Data Context Interaction (DCI), Browser Extensions, Identity Management, NoSQL, CSCW, Capability-Based Systems, CI/CD, Test Automation, Digital Electronics, Docker

**Standards:** implemented: TMDM, OKBC, RETS, Digest Auth, RBAC, ANSI X12 EDI

**Languages:** Python, Javascript, Coffeescript, Typescript, POSTSCRIPT , SQL, Rust, Bash, Java, C, AWK, ObjC, Scheme, Smalltalk, LISP, Nim, Guile, PAL, REXX, RPG/400, *etc, etc*

**Formats:** HTML5, CSS, SVG, XML, DocBook, SGML, Markdown, LaTeX, PDF, N3, TriG, OrgMode

**Upper Ontologies:** RDF*, OWL, OKBC, TMAPI, CycL, WordNet, KQML, DAML – MARC, EDI

**Systems:** Linux, MacOS, iOS, Android, Squeak, Minix, AS/400, OS/2, NeXTstep, Windows, AppleII

**Industries:** Artificial Intelligence, Molecular Nanotechnology, Bioinformatics, Digital Humanities, B2B & B2C E-Commerce, Database Publishing, Recruiting Systems, Bibliographic Systems, Fleet Automation & Tracking, Supply Chain Automation, Abuse Detection, Real Estate, Laboratory Information Management (LIMS), Learning Management

**Experience**

| 2015 to present | Founder & CEO | Nooron Collaboratory Inc/UG |
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Led 7 staff in e-commerce consulting, product development and AI-alignment R&D

| 2013 to 2014 | Fullstack Software Engineer | Connectifier |
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Fullstack engineer at Thiel-funded SoCal tech recruiting startup acquired by LinkedIn

| 2013 to 2014 | Architect & Programmer | The Orlando Project |
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Led team building academic dynamic visualization / semantic collaboration system

| 2011 to 2014 | Founder, CTO, Architect | Semandra, Inc. |
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Led cognitive, semantic, SalesForce, fleet management & e-commerce SaaS builds

| 2002 to 2011 | Principal | smurp.com |
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Led cognitive, real estate, knowledge graph, collaboration & publishing builds

| 1995 to 2003 | Founder, Chair, VP R&D | Emergence by Design |
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Led 15 staff building e-commerce, academic, real estate, recruiting, legal & other SaaS

| 1990 to 1995 | Principal | Sapient Systems |
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Built *FastEDI* (B2B e-commerce); edu assessment tool; Real Estate management

| 1990 to 1992 | Founder & Director | TechnoWatch Society |
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Led existential risk research & think-tank addressing AI, Biotech & Nanotech hazards

| 1989 to 1995 | Systems Analyst I, II & III | Gov't of Alberta |
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Led 4 staff building biomedical LIMS, inventory & ordering; taught RDBMS skills

**Education**
International Baccalaureate @ Lester B. Pearson College; CompSci, Phil, Phys, Math(Hon)
2yrs @ University of Alberta; Digital Electronics Tech @ SIAST; Bootcamp @ NeXT