

Berlin & Saltspring	smurp.com	linkedin.com/in/smurp	sfm@smurp.com	+1.650.503.4034 +49.160.462.8556
---------------------	--	---	--	-------------------------------------

A portrait photograph of Dr. med. habil. Gert H. Rothbarth. He is a middle-aged man with short, graying hair, wearing black-rimmed glasses. He is dressed in a dark blue button-down shirt over a black t-shirt. The background is a plain, light gray wall.

- **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

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

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

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

HTML5, CSS, SVG, XML, DocBook, SGML, Markdown, L^AT_EX, PDF, N3, TriG, OrgMode

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

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

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

2015 to present	Founder & CEO	Nooron Collaboratory Inc/UG
Led 7 staff in e-commerce consulting, product development and AI-alignment R&D		
2013 to 2014	Fullstack Software Engineer	Connectifier
Fullstack engineer at Thiel-funded SoCal tech recruiting startup acquired by LinkedIn		
2013 to 2014	Architect & Programmer	The Orlando Project
Led team building academic dynamic visualization / semantic collaboration system		
2011 to 2014	Founder, CTO, Architect	Semandra, Inc.
Led cognitive, semantic, SalesForce, fleet management & e-commerce SaaS builds		
2002 to 2011	Principal	smurp.com
Led cognitive, real estate, knowledge graph, collaboration & publishing builds		
1995 to 2003	Founder, Chair, VP R&D	Emergence by Design
Led 15 staff building e-commerce, academic, real estate, recruiting, legal & other SaaS		
1990 to 1995	Principal	Sapient Systems
Built <i>FastEDI</i> (B2B e-commerce); edu assessment tool; Real Estate management		
1990 to 1992	Founder & Director	TechnoWatch Society
Led existential risk research & think-tank addressing AI, Biotech & Nanotech hazards		
1989 to 1995	Systems Analyst I, II & III	Gov't of Alberta
Led 4 staff building biomedical LIMS, inventory & ordering; taught RDBMS skills		
International Baccalaureate @ Lester B. Pearson College; CompSci, Phil, Phys, Math(Honors)		
2yrs @ University of Alberta; Digital Electronics Tech @ SIAST; Bootcamp @ NeXT		