Executive Bio

I am a senior Quantum Engineer and Quantum Gravity Technology Researcher with 12+ years of independent R&D and systems engineering experience. My work centers on combined Quantum-Gravity Turing Computing (QGTC) and Quantum-Gravity Communication Theory (QGCT) systems, developed around my unification model Diffeomorphic Quantum Gravity (DQG). The DQG framework formalizes quantum gravity as a symbolic meta-computational and communicative system expressed through a layered QGTC/QGCT meta-linguistic architecture.

Central to the framework are Selmer-Lie differential forms: Cayley–Dickson–extended Lie-bracket constructions that define infinitesimal change across all imaginary channels simultaneously, optionally under Ore-skew scalar or surreal structure. These forms act as local generators of evolution, measurement operators in observer-dependent frames, and distortion metrics for inter-observer communication.

Within this structure, QGTC provides executable semantics for quantum-gravitational computation, QGCT provides isomorphic communicative semantics for interpretation and signaling, and Unruh–Lorentzian Frames are modeled as scale-variant computational or communicational contexts. For Unruh–DeWitt detectors embedded in neuromorphic or reservoir-computing regimes, the formalism replaces explicit field correlators and global singularity or vacuum assumptions with 3-tuple interval-valued symbolic operations, aligning naturally with adaptive, non-commutative substrates.

The DQG formulation is compact, composable, and well suited to high-update-rate dynamical Quantum Error-Correction Systems compared with Hilbert-space-centric approaches.

Patent Pending: Quantum Gravity Neuromorphic Sensor Design.

Curriculum Vitae

Core Competencies and Specializations

Attribute	Details	Relevance to EU Academic-Industry Projects
Theoretical Frameworks	DQG; Selmer-Lie differential forms; QGTC/QGCT	Enables cross-disciplinary proposals bridging physics, CS, and communications
Systems Engineering	Neuromorphic sensors; reservoir computing; adaptive substrates	Fits HPC and edge-to-cloud demonstrators for EU pilots
Quantum Programming	Deep-tech quantum programming; symbolic meta-computational stacks	Useful for HPC codebases, simulators, and prototype toolchains
HPC and Cloud Simulation	Large-scale quantum/post-quantum simulations on cloud and local clusters	Readiness for HPC workflows and performance engineering
OSINT GIS Fusion AI	Fusion of geospatial data, open-source intelligence, and AI inference	Directly applicable to EU security, environmental, and resilience projects
IP and Innovation	Patent pending; prototype sensor designs	Strong for industry and commercialization tracks

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Location: Stavanger, Norway.

Availability: Remote or hybrid; open to EU-based collaborations and consortium roles.

Education: High-grade Upper Secondary School; extreme self-motivated directed self-study and systems engineering towards Quantum Gravity Computation and Communication Technology followed.

Selected Projects and Technical Contributions

DQG Prototype Stack — Designed and implemented a layered meta-linguistic runtime that encodes QGTC semantics as executable symbolic operations for simulation and verification:

- Follow – QGTC Stack – Reactive Paradigm, Symbolic Meta-Programming Language-Suite.
- FollowDB – QGCT isomorphic to QGTC – Database Project of Quantum Communications.
- FollowerInstinct – Plug-and-play Quantum Gravity Operational Scaffolding (using ToEs – Theories of Everything).

Neuromorphic Sensor Prototype — Architected sensor design combining quantum-gravity inspired measurement operators with reservoir computing for photonic and phononic event detection. Patent Pending.

High-Update QEC Simulation Suite — Built simulation pipelines demonstrating DQG-aligned error-correction strategies that reduce density-matrix overhead and avoid global vacuum assumptions.

OSINT/GIS-Fusion AI Integrations — Developed fusion pipelines that combine geospatial datasets with symbolic quantum-inspired inference modules for situational awareness and anomaly detection.

HPC Deployment and Benchmarking — Ported and benchmarked simulation workloads across cloud HPC instances and local clusters, optimizing for throughput and memory efficiency.

Patent, Outputs, and Availability

Patent Pending: Quantum Gravity Neuromorphic Sensor Design.

Code and Simulations: Reproducible simulation suites and prototype codebases available on request for review and integration into consortium repositories.

Preprints and Technical Notes: Technical whitepapers and implementation notes documenting DQG formalisms, Selmer-Lie constructions, and QGTC/QGCT runtime semantics available for consortium review.

Fit for Long Horizon EU Projects and HPC Consortia

Role Types: Technical lead for deep-tech workpackages; principal investigator for simulation and prototyping tasks; systems architect for HPC integration; WP lead for sensor and neuromorphic demonstrators.

Value Proposition: I bridge theoretical quantum-gravity formalisms and practical engineering by delivering compact, composable computational semantics that map to HPC and neuromorphic hardware. This reduces simulation overhead, accelerates prototype cycles, and provides novel IP for commercialization.

Consortium Contributions: Proposal writing for Horizon Europe calls; technical workpackage design for HPC benchmarking; integration plans for OSINT/GIS-fusion pilots; risk and ethics assessments for dual-use technologies.

Practical Experience, Training, and Collaboration

Experience Summary: 12+ years of independent research and engineering focused on classical, semi-classical, quantum, and post-quantum simulations executed locally and in cloud HPC environments. No formal academic degree; extensive self-directed study, peer collaborations, and hands-on systems development.

Training and Methods: Continuous professional development through targeted courses, workshops, and collaborative research sprints in quantum programming, HPC optimization, neuromorphic computing, and geospatial AI.

Collaboration Style: Cross-disciplinary communicator experienced in translating abstract formalisms into engineering deliverables, mentoring junior researchers, and coordinating multi-partner technical integrations.

For EU long-horizon academic-industry projects seeking to combine foundational research with demonstrable prototypes, I offer a unique blend of symbolic quantum-gravity theory and systems engineering that maps directly to HPC and neuromorphic demonstrators. I can lead technical workpackages that require novel computational semantics, prototype sensor integration, and OSINT/GIS-fusion AI pipelines while contributing to commercialization pathways.