

SIAMAK SEYFI

Project Manager, PMP | Water & Hydraulic Infrastructure | Technology Development

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SUMMARY

PMP-certified project manager with two years of industry project delivery and hydraulic design — engineering projects managed from planning through delivery, dam outlets modelled and tested — and four years running instrumented experimental programs. Coordinated engineers, contractors, and suppliers, completed six competitive technology-commercialization programs, and took a water-filtration technology from a research concept to a tested prototype (TRL 4) while securing \$60,000+ in competitive funding. P.Eng. licensure in progress (Professional Engineers Ontario).

EXPERIENCE

Mitacs • NSERC-backed Labs4 • YSpace • Ocean Startup Project

2024–2026

Commercialization Lead — Water-Filtration Technology

Six competitive commercialization programs (2024–2026) that took a water-filtration technology from a research concept to a tested prototype (TRL 4); \$60,000+ secured in competitive funding, scholarships, and awards.

- Market to Lab (Labs4) • 2026 — Leads a 3-person team building the venture's marketing strategy and content in a two-month go-to-market sprint.
- Inventor to Founder Fellowship (YSpace, IPON-backed) • 2026 — Built the IP portfolio and protection strategy and tied IP decisions to the commercialization plan.
- Labs4 TRL-Up (NSERC-backed) • 2026 — Advanced the technology from TRL 3 to TRL 4 and wrote the technology roadmap: manufacturability, tolerances, OEM landscape.
- Mitacs Lab2Market Validate • 2025 — Converted 50+ stakeholder interviews into requirements and a staged commercialization roadmap.
- Ocean Idea Challenge (Ocean Startup Project) • 2024 — Designed, built, and tested filtration prototype hardware and iterated the design on test results.
- Mitacs Lab2Market Oceans • 2024 — Ran 30+ customer-discovery interviews and pitched as a finalist at the Lab2Market Summit.

York University

2022–2026

Researcher & Course Director

- Designed, fabricated, and commissioned 3 hydraulic experimental facilities, integrating cameras, lasers, synchronization hardware, and calibration equipment.
- Planned experimental programs with test matrices, milestones, risks, and acceptance checks; quantified measurement uncertainty to ± 0.002 m/s.
- Built Python and MATLAB pipelines for image processing, statistics, and reproducible batch analysis.
- Designed and delivered 2 undergraduate courses — Hydraulic Structures and Engineering Graphics — to 200+ students and managed the teaching team; taught 10+ courses to 500+ students.
- Diagnosed calibration drift, optical misalignment, and timing faults and kept traceable records, procedures, and version-controlled analysis files.
- Coordinated experimental work and co-authored papers with national and international research partners.
- Developed freshwater and groundwater course content for the United Nations Global Water Academy and coordinated its international review cycles.
- Trained junior researchers and supervised summer interns.

Borna Fidar Rasa Co.	2020–2021
<i>Project Manager</i>	
- Managed engineering projects for a firm based in a university innovation centre, from planning and design through execution and delivery. - Led project planning, engineering design, and research on mechanical and process-equipment projects; administered scope, schedule, and budget and delivered within the approved plan. - Coordinated engineers, contractors, and suppliers across three projects and reported progress, risks, and issues to clients and management. - Directed prototype development, testing, and validation for process equipment. - Co-supervised 3 trainee engineering students on design and research tasks.	

Arvin Share Pardaz Co.	2018–2019
<i>Hydraulic Engineer</i>	
- Led the experimental and numerical modelling and testing of three dam bottom outlets at a knowledge-based hydrodynamics laboratory. - Ran physical-model experiments and CFD simulations of flow and energy dissipation; analysed pressure distributions, velocity fields, cavitation risk, and air demand. - Recommended a design change to a dam bottom-outlet emergency gate; the client adopted it and reduced cost. - Prepared the supporting calculations, drawings, and technical documentation. - Supervised 3 engineering interns.	

EDUCATION

York University	2022–2026
<i>Ph.D., Civil Engineering</i>	
IUST	2017–2019
<i>M.Sc., Mechanical Engineering</i>	
University of Tabriz	2013–2017
<i>B.Sc., Mechanical Engineering</i>	

CREDENTIALS

- Project Management Professional (PMP), Project Management Institute, 2026. - P.Eng. licensure in progress, Professional Engineers Ontario. - Graduate Certificate, Science and Technology Commercialization, Simon Fraser University, 2024. - Technology Sales program, Simon Fraser University, 2026; WHMIS; Ontario Class G licence.	
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SKILLS

Project management	Scope, WBS, scheduling, budget and cost control, risk management, stakeholder reporting, prototype validation; predictive, agile, and hybrid delivery (PMP); Microsoft Project, Jira, Asana
Hydraulic engineering	Open-channel hydraulics, dam bottom outlets, stormwater conveyance, hydraulic design calculations, physical modelling, cavitation and pressure transients, pump evaluation
Modelling software	WaterGEMS, SewerGEMS, HEC-RAS, QGIS, ANSYS Fluent, OpenFOAM, STAR-CCM+, COMSOL
Instrumentation and testing	Experimental design, sensor and camera integration, laser and LED illumination, synchronization, calibration, PIV/PTV, high-speed imaging, measurement uncertainty, root-cause analysis
Data and analysis	Python (NumPy, Pandas, SciPy, Matplotlib), MATLAB, automated pipelines, image processing, statistics, Monte Carlo methods, data visualization
Design and documentation	SolidWorks, CATIA, AutoCAD, FDM 3D printing, engineering drawings and specifications, technical reports, LaTeX, Microsoft 365
Commercialization	Stakeholder interviews (100+), requirements, market validation, IP strategy, technology roadmaps, TRL assessment, go-to-market planning, HubSpot