

Arun Kishore, P.Eng.

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PROFESSIONAL SUMMARY

Structural engineer (P.Eng.) with 11 years delivering municipal water, wastewater, industrial, and heavy-infrastructure capital projects - from pump stations and treatment works to a **\$25M** residuals-treatment facility. Leads a **49-member** cross-office technical committee, owning its strategy, standards, and mentoring pipeline. Combines owner-facing delivery and contract-administration experience with three consecutive InnovAEtion awards - first place in 2026 - for engineering automation that reduces schedule, budget, and deliverable-quality risk.

CORE COMPETENCIES

Structural Design & Analysis • Municipal Water & Wastewater Infrastructure • Construction & Contract Administration • Project Controls & Budget Management • Cross-Discipline Coordination • People Leadership & Mentoring • Engineering Automation (Python) • Client & Stakeholder Communication

PROFESSIONAL EXPERIENCE

Associated Engineering

Structural Engineer, P.Eng.

Vancouver, BC

Aug'19-Present

Concurrent governance appointments: Chair, Python Technical Advisory Committee · Vice-Chair, Citizen Developer Service Unit · Vice-Chair, Structural Discipline Interest Group

Leadership scope: Elected to lead a **49-member** cross-office technical committee without direct reporting lines; own its multi-year strategy, standards, and intake-to-delivery pipeline while delivering structural design and construction administration on municipal water, wastewater, industrial, and heavy-infrastructure capital projects up to **\$25M**.

People Leadership & Governance

- Elected **Chair** of the **49-member** Python Technical Advisory Committee and **Vice-Chair** of the Citizen Developer Service Unit; drafted both bodies' multi-year strategies and roadmaps and ran the full intake-to-delivery cycle - assigning, monitoring, evaluating, and coaching contributors across multiple offices without direct reporting lines.
- Developed emerging leaders by mentoring vice-chairs and unit leads and supervising engineers-in-training; created and taught a "Python for Structural Engineering" program that brought four colleagues to intermediate proficiency.
- Authored the firm's Python development standard and governance guardrails; established the internal package registry and led vulnerability scanning across **43 repositories**, catching and remediating **2 HIGH-severity CVEs**.

Municipal, Industrial & Infrastructure Project Delivery

- Directed construction administration for the **\$25M** Residuals Treatment Facility (Capital Regional District, BC); resolved a mid-bid CIP-to-shotcrete change on the permanent anchor wall in one week, negotiating three firms to a same-day resolution and holding change orders within tolerance.
- Engineered all reinforced-concrete components for the Bay Avenue Pump Station to **CSA A23.3 and ACI 350.3**; validated the existing valve chamber to save the client an estimated **\$300,000** in rework.
- Delivered the complete structural design for two primary buildings at the post-disaster Powell River WWTP, integrating concrete, steel, masonry, and heavy-timber systems.
- Served as primary client contact and structural design lead on the Nicomekl Sea Dam Replacement, coordinating and integrating the work of **12** engineering and technical disciplines toward common project goals.
- Led post-flood structural recovery in remote northern communities - **200+** home assessments (Hay River) and restoration of **70+** homes - completed weeks ahead of schedule to secure re-occupancy before winter.
- Designed a multi-storey steel platform for dynamic water-jet loads and over **1,300 m²** of reinforced-concrete foundations supporting **800-ton** haul trucks at Grassy Mountain Mine.
- Performed an independent structural review of the Parkland Refining Plant expansion against **blast loadings**, clearing the design for construction.

Project Controls & Engineering Automation

- Built the **project-controls dashboard adopted firm-wide by project managers** to govern capital-project finances: integrates accounting data to report budget, actuals, and estimate-at-completion, plots **earned-value (EV)** curves, and auto-alerts stakeholders to forecasted cost and schedule overruns before they take hold (**2024 InnovAEtion Award**).
- Launched a portfolio-wide **lessons-learned** initiative mining historical **requests for information (RFIs)** to surface recurring design-to-field mismatches and route the findings to responsible engineers - converting each contractor RFI into a systemic fix that curbs rework and heads off cost overruns before they recur.
- Built **ae-pdf-spellcheck**, an orientation-aware QA checker that flags spelling errors in engineering drawings and reports before they reach clients - co-authored with five disciplines and sponsored firm-wide by the BIM group (**1st place, 2026 InnovAEtion Award**).
- Selected for the firm's AI-governance pilot to draft its agentic-coding framework; shipped production tools including **ETABuddy** (hybrid retrieval with budget-capped agent orchestration) and a telemetry layer used by **38 production applications**.

Uzun+Case, LLC	Structural Engineer II	Atlanta, GA	May'16-Jan'19
- Built an automated concrete girder/slab design-and-scheduling workflow, saving an estimated \$1.15M/year. - Coordinated with architect, MEP, and contractor teams to deliver the multi-million-dollar Georgia Aquarium Predator Exhibit on schedule. - Designed two-way post-tensioned slab systems (RAM Concept) for a multistorey residential tower under gravity and lateral loads.			
Enercon Services, Inc.	Civil/Structural Engineer	Atlanta, GA	Feb'16-Apr'16
Performed static-equivalent and dynamic analysis for seismic and missile loads on nuclear structures; prepared design-modification packages and reviewed drawings for design compliance and constructability.			
Palmer Engineering Company	Structural Engineer (Part-Time)	Atlanta, GA	May'15-Dec'15
Designed the dome of the BAPS Temple, Atlanta, within stringent architectural constraints; streamlined industrial storage-rack design under gravity and seismic loadings.			

EDUCATION

Georgia Institute of Technology	M.Sc. Structural Eng.	GPA: 3.64/4.00	Aug'14-Dec'15
National Institute of Technology	B.Tech. Civil Eng.	GPA: 8.26/10.00	Jul'10-Aug'14

PROFESSIONAL REGISTRATION & LICENCES

- Registered **Professional Engineer (P.Eng.)**, Engineers and Geoscientists British Columbia (EGBC) - member #218855.
- Valid BC Class 5 Driver's Licence.
- Transport Canada-licensed drone (RPAS) pilot.

LEADERSHIP, AFFILIATIONS & AWARDS

- InnovAEtion Award - three consecutive years**, Associated Engineering: **1st place 2026** (ae-pdf-spellcheck deliverable-QA tool), 2nd place 2025 (AutoFEM structural automation), 2nd place 2024 (firm-wide project-controls / earned-value dashboard).
- Chair*, Python Technical Advisory Committee (founding member); *Vice-Chair*, Citizen Developer Service Unit; *Vice-Chair*, Structural Discipline Interest Group (elected 2026), Associated Engineering.
- Author of a 34-article technical blog read by practitioners across the Canadian AEC industry (**1,000+** monthly visitors, [blog.struct.work](#)); built the open engineering calculators at [loadings.struct.work](#) to automate routine checks and free engineers for higher-value review.

SELECTED PUBLICATIONS

- Development of sugarcane bagasse ash based Portland pozzolana cement and evaluation of compatibility with superplasticizers*, International Journal for Construction & Building Materials, Vol. 68, 2014.
- Effects of Corrosion Inhibitors on the critical chloride threshold of thermo-mechanically treated (TMT) Steel*, SCMT3, Aug 2013.

TECHNICAL SKILLS

- DELIVERY & MANAGEMENT:** Capital & contract administration; construction administration; budget and cost control; portfolio prioritization; MS Project, Word, Excel, Outlook.
- ENGINEERING:** SAP2000; SAFE; ETABS; RFEM; Revit; AutoCAD; RAM Concept; RAM Elements; ADAPT; RISA-3D; CSA A23.3; ACI 350.
- TECHNOLOGY & AUTOMATION:** Python; JavaScript; Excel VBA; Dynamo; RAG/hybrid search; LLM agent orchestration; CI/CD and security scanning; Docker.