

Maral Kamalzadeh (EIT)

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PROFILE

- Master's degree in Civil and Environmental Engineering with expertise in design, construction, and consulting.
- 12+ years of experience in Industrial, Commercial, Institutional (ICI), and Infrastructure.
- Skilled in Procore, Microsoft Office Programs, Word, Excel, Outlook, Project, AutoCAD, Taks, Etabs, and Safe.
- Demonstrated ability in interpersonal, written, and communication skills to build workplace relationships.
- Proficient in contract administration processes for various construction industry practices and standards.
- Registered with EGBC as an EIT and eligible to obtain Project Management Professional (PMP) certification.
- Permanent Resident (PR) status in Canada with a Class 5 driver's license in British Columbia (BC).

CORE STRENGTHS

- Concrete and Steel Framed Structures
- Project Management/Coordination
- Calculation and Reviewing Plans
- Document and Report Preparation
- Environmental Stewardship
- Estimation
- Design and Planning
- Engineering plans Interpretation

PROFESSIONAL EXPERIENCE

Project Coordinator

June 2023 - Dec 2023

Translink, New Westminster, B.C.

South Coast British Columbia Transportation Authority

OCC2 (Operation Control Centre 2), Infrastructure, Edmond Station, New Westminster, B.C.

A 4-story Operations and Control Centre steel structure with control rooms, supporting further Skytrain expansion.

- Reviewed RFIs and change orders, conducted discussions, reviews, site visits, and inspections to confirm work met specifications, and communicated with project teams such as consultants and internal and external stakeholders.
- Evaluated potential field problems and provided clear trackable interpretations of contract documents and design drawings through reporting, reducing issue resolution time and meeting desired project outcomes.
- Utilized technology and apps such as Procore and MS Teams to coordinate activities, and contribute ideas, which increased workflow efficiency.

Project Engineer/ Project Coordinator/ Estimator

Nov 2010 - Sep 2022

Organization for Development, Renovation and Equipping Schools of Iran, Shiraz, Iran.

A government division that acts as the owner, manager, and consultant, and is responsible for constructing schools in the provinces of Fars. The projects range from \$1 M to \$50 M (CAD).

Project Engineer: A High School Campus (5727 m²), Neiriz, Iran - (Mar 2019 – Jul 2020)

A 16-month project, including a 3-story, 12-classroom concrete structure school (1628 m²), a steel truss gymnasium (1524 m²), a masonry security station (85 m²), and an asphalt area (2500 m²).

- Updated the schedule, while waiting for a new supplier to deliver trusses for the gym's roof, by reallocating labor resources to interior works of the high school, to minimize the overall project delay from six weeks to one.
- Based on a revised structural reinforcement plan change due to architectural drawing changes, revised project implementation plans, scope, and budget, which achieved a cost savings of 10%.

Project Coordinator: A High School Campus (12370 m²), Shiraz, Iran - (Apr 2017- Apr 2019)

A 24-month project, including a 3-story, 20-classroom steel structure school (2273 m²), a concrete structure dormitory (3783 m²), a steel truss gymnasium (1832 m²), a library (1982 m²), and an asphalt area (2500 m²).

- Collaborated cross-functionally with the structural, electrical, and mechanical engineering teams to coordinate and implement a change order that revised the high school's structural plan, from steel to concrete, which reduced overall project costs by 20%.
- Resolved WBS progress delays for the dormitory build by organizing more meetings to align on critical timelines and granting contractors access to the project management tool for real-time updates, ensuring timely delivery.

Estimator: A Guidance School Campus (10566 m²), Shiraz, Iran - (May 2014- March 2016)

A 22-month project, including a 4-story, 15-classroom steel structure guidance school (2100 m²), a concrete structure dormitory (2470 m²), a steel truss gymnasium (1496 m²), an asphalt area (4500 m²).

- Prepared detailed estimates and evaluated requests for proposals, and tender documents such as technical requirements using the newly implemented Taksa software, which improved productivity, reduced errors, and ensured more accurate quantity take-offs compared to the previous use of MS Excel.

Engineer Analyst/ Inspector (Registered Professional Civil Engineer)

Nov 2010 - Sep 2022

Iran Construction Engineering Organization (IRCEO), Shiraz, Iran

Regulates and governs professional engineers and engineering services under the authority of the Professional Governance Act.

Engineer Analyst: A Residential Building (18 000 m²), Shiraz, Iran - (Jan 2015 – Mar 2016)

A 14-month project that included an 11-story concrete structure.

- Changed shear wall arrangements for the Residential Complex using CSI ETABS, CSI SAFE, and AutoCAD, which decreased the structure's weight by 7 kg/m² and reduced costs.
- Added an extra floor to the project and reanalyzed the structural plans to confirm column, beam, and foundation stability, using ETABS and SAFE, increasing the building's square footage without altering design parameters.

Inspector: A Commercial Complex (8 000 m²), Shiraz, Iran - (May 2018 – Aug 2019)

A 13-month project which included an 8-story concrete structure.

- Leveraged GIS and AutoCAD to create spatial analysis reports, layouts, and plans, enhancing digital information accessibility by 100% over traditional paper-based systems.
- Identified an 8-meter span on the 5th floor during the inspection that had been designed with a single joist and coordinated with the consultant to redesign it with a double joist, resulting in 100% safety approval for the roof.

EDUCATION & PROFESSIONAL DEVELOPMENT

MentorConnect Program

Immigrant Employment Council of BC (IECBC)/City of Vancouver

Aug 2024 -Oct 2024

Engineer In Training (EIT)

Engineers and Geoscientists British Columbia (EGBC)

Mar 2023 - Present

Civil 3D Course

British Columbia Institute of Technology (BCIT)

Sep 2023 – Dec 2023

Master of Civil and Environmental Engineering

Shiraz University, Shiraz, Iran*

Bachelor of Science in Civil Engineering

Persian Gulf University, Bushehr, Iran*

*Assessed by World Education Services (WES) for Canadian Equivalency