

Shihab Bin Sultan, E.I.T.

Phone: (825) 438-5041 | Email: shihabsultan@gmail.com | Calgary, Alberta

Professional Summary

APEGA Engineer-in-Training (E.I.T.) with a Bachelor of Science in Mechanical Engineering (CGPA 3.89/4.00) and successful completion of the NCEES Fundamentals of Engineering (FE) exam. Expert in AutoCAD and Revit for 2D/3D drafting, piping layouts, mechanical drawings, and equipment modelling—honed through hands-on teaching at Bow Valley College, MCG Career College, and Lifemark. Proven ability to create/revise detailed drawings, ensure standards compliance (ASME/API/CSA exposure), troubleshoot designs, and collaborate across teams. Eager to apply transferable skills to piping design in oil & gas facilities (plot plans, PFDs, P&IDs, piping plans/sections/isometrics) while quickly mastering CADWorx Plant and Equipment under senior guidance. Currently completing online MBA (Carleton Sprott) for project management insights.

Core Competencies

- **CAD & Drafting:** AutoCAD, Revit (Layouts & 3D Modelling), 3D Modelling, Drawing Revision, P&IDs/Piping Plans/Sections/Isometrics
- **Technical:** Engineering Standards/Code Awareness (ASME, API, CSA), Equipment Modelling, Heat Transfer Analysis (ANSYS), Problem-Solving
- **Tools:** Microsoft Office Suite (Expert), SolidWorks, ANSYS, Power BI
- **Soft Skills:** Team Collaboration, Cross-Discipline Coordination, Technical Communication, Attention to Detail
- **Certifications:** Fundamentals of Engineering (FE) – Passed (NCEES), Microsoft Office Specialist – Expert, IBM Data Analytics (Beginner), Emergency First Aid & CPR/AED (Level C)

Professional Experience

Engineering Fundamentals Instructor (Contract Part-time)

Dec 2025 - Present

Bow Valley College, Calgary, AB

- Delivered NCEES FE exam preparation course, reviewing core mechanical topics (statics, dynamics, machine design, heat transfer, fluid mechanics, thermodynamics) aligned with NCEES handbook and specifications.
- Guided aspiring engineers in practice problems, timed simulations, and handbook use, leveraging personal FE pass for real-world insights into oil & gas/mechanical applications.
- Developed customized study plans/quizzes, enhancing problem-solving and technical communication—transferable to P&ID development, equipment sizing, and vendor drawing reviews.

Teaching Assistant – AutoCAD & Revit (Contract Part-time)

Sep 2025 - Present

MCG Career College, Calgary, AB

- Provided hands-on training in AutoCAD and Revit, focusing on 2D/3D drafting, workflows, drawings, and standards compliance.
- Created project-based assignments simulating real-life scenarios, guiding students in advanced features.
- Facilitated interactive sessions for diverse learners, building collaboration and problem-solving skills essential for cross-disciplinary coordination and design deadlines.

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Computer Instructor/ Instructional Designer

Aug 2022 - Present

Lifemark Health Group, Calgary, Alberta

- Delivered Microsoft Office training (Word, Excel, PowerPoint) to professionals, emphasizing data accuracy, reporting, and workflows—supporting engineering documentation, scope packages, and procurement.
- Designed customized lesson plans/hands-on exercises, providing real-time troubleshooting and promoting knowledge transfer for team-based environments.

Mechanical Engineering Intern

2016

Pivot Engineering Ltd., UAE

- Assisted in HVAC layouts and energy optimization for high-rise projects, including load calculations and MEP coordination—transferable to piping systems and equipment specification.
- Gained insight into building code compliance and system integration.

Technical Projects & Engineering Experience

- **Portable Air Conditioning Unit (Capstone):** Led design, heat transfer analysis (ANSYS), and energy-efficient material selection.
- **Formula 1 Racing Car (University Team):** Contributed to component design, CFD analysis, and CAD modelling.
- **Innovative Bike Design (Competition Winner):** Designed a prototype for high-temperature environments.

Leadership & Volunteer Work

- **Executive Committee Member – APEGA Calgary Branch & ASME Calgary Section:** Contributed to professional development, events, and networking in Alberta's energy community.
- **Vice President of Marketing – Toastmasters Club (Engineering & Geoscience):** Grew membership by 20% through promotional strategies and technical sessions.
- **Volunteer Judge – APEGA Science Olympics:** Supported emerging engineers and community initiatives.

Education

Bachelor of Science in Mechanical Engineering

Abu Dhabi University, United Arab Emirates | CGPA – 3.89/4.00

- Active in Engineering clubs, F1 racing team, and campus R&D competitions.