

Gabriel Elias

Master's Degree in Mechanical Engineering

E.I.T member of the Engineers and Geoscientists in BC, Canada

Certified Red Seal Millwright

Preparing to challenge the Red Seal Industrial Electrician exam

2015 2nd St North, Cranbrook, BC, V1C 3L4

gabriel.elias.79@gmail.com

Cell: 778-551 -1899

SUMMARY

Versatile 20 years' background in the mechanical and electrical industrial fields:

- Expert in design, maintenance and analysis of Machineries and Mechanical systems
- Expert in design, maintenance and analysis of Hydraulic & Pneumatics Systems
- Expert in design, maintenance and analysis of Electrical/Automation systems
- Expert using CAD/CAM software such as AutoCAD, SolidWorks, Inventor, GibbsCam, FEA & CFD simulation
- Hands-on Experience with using CNC and Manual machines tools such as Lathe, mill, press, etc.
- Managing and supervision of up to 10 employees
- Production Management
- Maintenance Management
- Customer Service

EXPERIENCE

Employer : Fab-Rite Services LTD, Cranbrook , BC , Canada

Position : Mechanical Design Engineer – Project Manager , from : July 2018 to February 2019.

- Manage projects; opens work orders, procures materials, responsible for budgets, and works with production team to schedule dead lines
- Develops detailed fabrication designs and drawings
- Performs material take-offs and quotations for new projects
- Ensures project documentation is current, accurate, and stored appropriately
- Develops and maintain CAD drawing libraries
- Provides technical advice
- Responsible for performing quality control checks on projects

Career Highlights:

Responsible for designing and managing to completion; over 60 projects in 5 months, including the probation period, from small to large mechanical structures and systems, including:

- Engineering design of: Stairs, Handrails, Enclosures, conforming to the current Canadian building code.
- Engineering and custom design of Pipes and stools built to the request of contractors and plumbers.
- Engineering design improvement of existing Engine Modules for the mining industry Haul Trucks.
- Engineering design using original existing plans, to refurbish old mining equipment and plants.
- Advising and helping in the maintenance of Fab-Rite production facility at Cranbrook location.

- Improving the production output of Fab-Rite shop, by introducing new methods for production, quality control and management.
- Designing Evacuation and emergency plans for the facility according to the National Fire code.
- Design of customized tools to help the maintenance team perform their jobs more safely and efficiently.

Employer : Tri-kon precast - Cranbrook, BC, Canada

Position : Millwright /Electrician/Maintenance manager, from : October 2017 to July 2018

- Maintenance Management and scheduling of the concrete precast plant and machineries.
- Performing systematic maintenance over heavy duty machineries; including: Cranes – Shuttle lift – Forklifts – Loaders Diesel, Propane and Gas engines.
- Troubleshooting and Preventive maintenance over precast machineries such as: Concrete Mixer - Silos – Conveyors Boiler – Hydraulic Concrete Molds – Pneumatic systems – Electrical Systems – Gear Boxes.

Employer : Vitrum Glass & Apex Aluminum Extrusion Group, Langley, BC, Canada

Position : Senior Technician, from: February 2017 – November 2017

- Managing a team of millwright apprentices by working hand by hand with them and demonstration of advanced effective maintenance techniques.
- Engaging in support activities connected with the setup, installation and maintenance of glass production machines and related equipment, on both divisions of the plant: Insulated Glass and Glass Fabrication.
- Perform routine and preventive maintenance, such as, lubricating, adjusting and rebuilding hydraulics, pumps, pneumatic valves and seals.
- Following a Preventative Maintenance schedule, whenever the machines are not in use, over: Ovens, quenchers, laminators, washers, sealers, polishers, seamers and Glass Applicators.
- Trouble shooting of mechanical system such as; Applicators, Sealers, laminators, CNC Cutters, polishers, Seamers.
- Performing maintenance calls independently and as part of a team.
- Installing and setup VFDs on different types of motors, to adjust the speed of glass conveyors.
- Replacing; Belts, Sprockets, Bearings, Rollers, Gearboxes on all types of glass.

Employer : Vanderpol Food Group, Abbotsford, BC, Canada

Position : Plant Engineer, from June 2016 – January 2017

- Providing guidance for preventative and repair maintenance to ensure that plant operations can meet output quotas and deadlines, improving processes to increase plant production efficiency and quality.
- Project Engineering; planning and execution of plant's capital projects, design of PI&D layouts.
- Coordinating equipment selections, interacting with contractors and evaluating quotes, providing support to ensure that plant operations meet environmental and safety protocols in a cost-effective manner.

Employer : Tundra Sales Inc., Langley, BC, Canada

Position : Project Engineer, from January 2016 - May 2016

- Participate in tasks requiring collaborative engagement with other departments; represent the company and department appropriately while providing competent technical leadership.
- Carrying out risk assessment and find solutions to mitigate the risks.
- Making sure that the aims of projects and the quality standards are met.
- Participate in tasks requiring collaborative engagement with other departments; represent the company and department appropriately while providing competent technical leadership.
- Assessing project and resources requirements and setting project objectives.
- Determining quality control standards and overseeing production processes.

Employer : AMBAR Group L.L.C, Lebanon

Position : Industrial Technician, from 1999-2008 – Mechanical Engineer/Production Manager , from 2008-2015

- Recommend revision to methods of operation, material handling and equipment layout, to increase production and improve standards.
- Study time, motion, methods and speed involved in maintenance, production, to establish standard production rate and improve efficiency.
- Recommend modifications to existing quality or production standards to achieve optimum quality within limits of equipment capability. Planning and organizing production schedules.
- Design and develop new products from 3D Modeling to drawing creation and production implementation.
- Perform design and optimization of machine components and assemblies for manufacturing.
- Perform design and analysis of machinery sequence of operation.
- Communicate functional requirements to and collaborate with machine assemblers in the testing, troubleshooting and commissioning of machines and projects.
- Provide engineering information and coordination in finding machinery solutions to customer applications using company best practices and products.

EDUCATION

- **Canadian Electrical Code, in 2015**
 - B.C.I.T – British Columbia Institute of Technology
 - Part time course; training in implementing the Canadian Electrical Code
- **CNC Machinist, in 2015**
 - B.C.I.T – British Columbia Institute of Technology
 - Part time course; basic training in CNC Machining
- **Mechanical Engineering, Master of Science, from 2012 – 2015**
 - College National des Arts et Métiers, Paris – Lebanon Branch

Note: The degree is recognized and accepted by EGBC
- **Electronic Maintenance Certificate, in 2012**
 - I.T.I – Industrial Technical Institute, Beirut – Lebanon
 - Part time course; training in general electronic maintenance
- **Industrial Engineering Technologist, from 2003 - 2008**
 - I.T.I.S – Higher Industrial Technical Institute, Beirut – Lebanon
 - 5 Years degree and Co-op training in Industrial Maintenance and Pneumatics

Note: The degree is recognized and accepted by EGBC
- **Automotive Technologist, from 2001 - 2003**
 - C.I.T – Center of International Technologies, Beirut Lebanon
 - 2 Years' degree specialization in automotive technologies

LANGUAGE PROFICIENCY

- **English, French**