



Contact

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Academic Background

Bachelor of Science in Environmental
Engineering (B.Sc.Eng.), University of
Guelph
1999

Certification

Certified Energy Manager (CEM),
Association of Energy Engineers

Professional Licensure/ Memberships

Professional Engineers Ontario
(PEO)
1999 to present

Sustainable Labs Canada (SLCan)
2016 to present

American Society of Heating,
Refrigerating & Air Conditioning
Engineers (ASHRAE)
2013 to present

Mark Cammisuli, B.Sc., CEM, P.Eng.

Practice Lead, Mechanical Systems, Piping and HVAC

Mark Cammisuli has extensive experience in mechanical system design and the application of complex equipment. He has spent over two decades providing design instruction to engineers and architects and has considerable field experience providing action-based specification and design. He is a critical thinker, dynamic people leader and brings an extraordinary combination of engineering knowledge, leadership, and strong communication skills.

Primary Areas of Consulting

- Commercial / Industrial Building Mechanical Systems
 - Air handling system design
 - Heating and Cooling
 - Fans, Pumps and Variable Frequency Drives
 - Building Automation
 - Airflow control and balancing
 - Energy Recovery
 - Humidification
 - Air Exchange
 - Air Filtration
 - Demand Controlled Ventilation
- Specialty Mechanical Systems
 - Laboratories
 - Clean rooms
 - Isolation rooms
 - Surgical suites
 - Laboratory exhaust
- Central Utilities
 - Steam System Design
 - Steam Generation, Pressure and Temperature Control
 - Condensate Recovery, Steam trapping, air separation
 - Central cooling
- Energy Management
 - Sustainable Building Design
 - System Optimization
 - Energy Modeling
- Water Quality
 - Boiler water quality - scale and corrosion issues
 - Cooling system water quality - scale and corrosion issues
 - Biological issues in evaporative cooling systems
 - Wastewater treatment
 - Corrosion
- Equipment
 - Boilers
 - Chillers
 - Pumps
 - Fans
 - Compressors
 - Heat exchangers
 - Cooling towers



Buildings

Tall office and residential
University buildings Hospitals
Laboratories Government
Buildings

Process/Manufacturing

Water/Wastewater Treatment
Pharmaceuticals
Food Processing Plastics
Metals Chemicals
Automotive

Employment Background

Haag Canada, Toronto, ON

Practice Lead Mechanical Systems

2024 to Present

- Founded and leads a team to examine the design, construction, manufacturing, operation, maintenance, and environmental aspects of mechanical systems. Responsible for establishing this new discipline within the company and driving its development and success.

Haag Canada, Toronto, ON

Practice Lead Mechanical, Piping and HVAC

2021 to 2024

- Lead a team to investigate the design, construction, manufacture, operation, maintenance and environmental aspects of mechanical failure.
- Provide operational and design expertise necessary to remediate and limit interruptions to business, secure the site and ensure evidence is not compromised when a loss has occurred.

Preston Phipps Inc., Mississauga, Ontario

Manager of Technology, Central Canada

2016 to 2021

- Directed architects and engineering consultants on the application of complex mechanical technologies.
- Authored technical specifications for engineered products and solutions to be used in the tendering process.
- Conducted forensics investigation and managed specifications of remediation of mechanical system and equipment failures.
- Educated architects, lab-planners, researchers, engineers, and contractors on advanced mechanical technologies.

Enbridge Gas Distribution Inc., North York, Ontario

Team Lead, Industrial Energy Solutions

2013 to 2016

- Independent 3rd party expert resource to Universities and Hospitals to reduce their energy and carbon footprint.
- Modeling expert of complex mechanical systems including heating, cooling and ventilation.

Steam & Thermal Technologies, Vaughan, Ontario

Steam Solutions Engineer

2011 to 2013

- Co-founded custom engineering division for steam equipment in the manufacturing, educational and healthcare sectors.
- Designed, and commissioned steam and thermal technologies.
- Oversaw the manufacture and installation of steam and thermal technologies.



Klenzoid Company Ltd., Mississauga, Ontario

Technical Services Manager

2004 to 2010

- Managed a team of engineers and technologists who provided a variety of services for steam, hot water and cooling systems. These included water softening, dealkalization, reverse osmosis, water testing, chemical treatment, corrosion monitoring, and onsite wastewater treatment.
- Developed a 6-week comprehensive educational program in the practical application of thermodynamic principles and corrosion control in heating and cooling systems.

Quadro Engineering Inc., Waterloo, Ontario

Application Engineer

2000 to 2004

- Oversaw R&D, specification and pilot manufacturer of equipment and processes for the pharmaceutical, food and personal care industries.
- Designed powder dispersion and mixing equipment.
- Managed on-site commissioning of process equipment, to ensure efficient transition to full production.

Notable Projects

- Spirit of York Distillery - Diagnosed and resolved steam boiler feedwater pump motor failures. Identified short cycling as the cause and recommended changes to the level control system.
- University of Guelph - Investigated and analyzed a 5-storey laboratory building HVAC system to resolve excessive exhaust volume.
- University of Toronto Scarborough Campus – Created energy model for implementation of air-quality monitoring systems in the labs. Defended results through Ontario Energy Board audit process.
- University of Toronto St. George Campus – Created energy model for installation of HVAC demand-controlled ventilation system in Robarts Library.
- Conestoga College Institute of Food Processing Technology - Designed and commissioned an electric clean steam generator for food processing pilot plant.
- Day & Campbell - Designed and commissioned heat recovery system to capture waste heat from autoclaves in a masonry product and block manufacturing facility.
- Lassonde Beverages – Conducted a detailed study of water and steam usage for a bottling facility. Resulted in the identification of over 15% in potential savings, and implementation of numerous measures.
- Alpine Plant Food - Designed a new steam system to replace the aging hot water process heating system.
- Georgia Pacific - Investigated highly accelerated corrosion in plastics plant stainless steel dies. Identified microbiologically induced corrosion as the cause and designed a solution that resolved the issue.