



Contact

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HaagCanada.ca

Academic Background

Bachelors 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 of Ontario
1999 to present

Sustainable Labs Canada (SLCan)
2016 to present

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

Mark Cammisuli, P.Eng., CEM

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.

Areas of Expertise

- 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



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Industries

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, Piping and HVAC 2021 to

Present

- 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.



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Practice Lead, Mechanical Systems, Piping and HVAC

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.

Select Project Experience

- 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 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 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.