



DAN RAMSAY, P.Eng., LEED, A.P.

MECHANICAL ENGINEER & COMMISSIONING AUTHORITY

PROFILE

Professional mechanical engineer specializing in delivering high-performance buildings through commissioning, retro-commissioning and LEED consulting.

PROFESSIONAL EXPERIENCE

Mechanical Engineer, LEED Consultant, P.Eng

Mechanical Engineer role. Lead for commissioning and retro-commissioning projects. Sustainability and LEED consultant. Energy modelling and mechanical design. Design, develop HVAC products, soundproofing and tools. Brought to market six different products, with four more currently under development. Product design & development, testing, and supply chain management.

Project Type: University Buildings, Shopping Centers, & Office Buildings.

Building commissioning, project management, sustainability and LEED consulting. A lead commissioning engineer for retro-commissioning projects including equipment testing, report writing, recommendations, energy and financial analysis.

- Served on the commissioning team for a variety of new construction projects typically in accordance with LEED requirements. Duties include design reviews, preparing static and functional tests, performing extensive on-site functional tests, report writing. Projects included office buildings, warehouses, hospitals and community centers.
- Sustainability and LEED consultant to ensure project teams achieved the highest possible LEED certification level. Responsible member for all project stages from initial design meetings to final submissions.
- Additional experience includes energy modelling, mechanical design, general project management.

Client: Large Healthcare Facility

Project Type: Commercial Functional Testing, Commissioning P.Eng

Many complicated and interconnected systems which all required functional testing at the equipment level as well as overall systems testing. The air system consisted of 9 air handlers, VAVs, fan coils, phoenix valves, isolation rooms, and ambulance exhaust. The wet side included 4 boilers, chillers, dry cooler, reheat coils, and in-floor heat. Included site inspections, component verification, functional testing of all mechanical, electrical, and controls systems. Report writing and final commissioning documentation.

CONTACT

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EDUCATION

Bachelor of Mechanical Engineering
University of Saskatchewan
2012

ASSOCIATIONS

- Association of Professional Engineers and Geoscientists of Alberta (APEGA)
- Association of Professional Engineers and Geoscientists of British Columbia (APEGBC)
- Canada Green Building Council (CaGBC)
- Licensing Executives Society (USA & Canada) Inc.

PROFESSIONAL EXPERIENCE

Client: Gordon Oakes Red Bear Student Centre (GORB)

Project Type: Commissioning P.Eng, Principal LEED Consultant

The Gordon Oakes Red Bear Student Centre (GORB) is one of Canada's most unique and sustainable college buildings. GORB set a new standard for incorporating aboriginal culture into its design. Energy-efficient features include an energy recovery wheel, high efficiency motors, water efficient plumbing fixtures, a high-performance building envelope and energy efficient lighting & controls. The mechanical system was very complex, with a large number of independent zones for a project of its size. For example, the main lobby had the ability to become a 'ceremonial smoke zone' to allow indoor ceremonies.

- Site Inspections, component verification, functional testing of all mechanical, electrical, and controls systems. Report writing and final commissioning documentation

Client: Rivera

Project Type: Commissioning Project Manager, LEED Consultant P.Eng

Rivera is an assisted living complex that offers a wide range of living options including independent living, independent supportive living, assisted living, memory care and more. Since this is a residence, particular care went into commissioning and design of the systems directly affecting the residents.

- Site Inspections, component verification, functional testing of all mechanical, electrical, and controls systems. Report writing and final commissioning documentation. Performed design reviews and attended design development meetings

Client: Swan Valley Rec. Centre

Project Type: Commissioning, Test Engineer P.Eng

The Swan Valley Rec. Centre contains many facilities including a large pool, hot tub steam room. Component verification, functional testing of all mechanical, electrical, and controls systems.

Client: Ross School

Project Type: Commissioning Project Manager, LEED Consultant P.Eng

Ross School is a historical building that underwent a major renovation to convert it into leasable office space and the project was certified under LEED Core & Shell.

- Design & reviews. Site Inspections, component verification, functional testing of all mechanical, electrical, and controls systems. Report writing and final commissioning documentation. Performed design reviews and attended design development meetings

Client: The Global Transportation Hub

Project Type: Commissioning Project Manager, LEED Consultant P.Eng

The global transportation hub is one of Canada's inland ports which consists of an 1,800-acre logistics park. This project consisted of 2 large warehouses sub-divided into leasable spaces for storage.

- Project review & design work. Site Inspections, component verification, functional testing of all mechanical, electrical, and controls systems. Report writing and final commissioning documentation. Performed design reviews and attended design development meetings

PROFESSIONAL EXPERIENCE

Project Type: Large Shopping Facilities, Retro-Commissioning P.Eng

Constructed over 50 years ago, these large shopping facilities had undergone various additions and renovations without proper commissioning and maintenance, leaving their systems in disrepair.

- Provided recommendations resulting in a net-present value of over \$1 million. These savings would be achieved through proper equipment scheduling, equipment upgrades and smarter controls.
- Completed extensive testing of all systems which resulted in a master deficiencies list that maintenance staff utilized for immediate savings.
- Identified equipment malfunctions and design & construction errors that left many spaces improperly ventilated or conditioned and sometimes dangerous to staff.

TECHNICAL TRAINING & CERTIFICATIONS

- Analog & Digital Electronics, Robotics, 2019-2020
- Solar Energy, Fundamentals to Practice, EcoSmart, 2018
- LEED, A.P., 2014
- IP & Licensing Basics, Licensing Executives Society, 2011