

AJ McLean

Montreal, Quebec | (514) 514-0000

ajmclean@gmail.com | [linkedin.com/in/ajmclean](https://www.linkedin.com/in/ajmclean) | <https://github.com/ajmclean>

PROFILE

- Construction Management professional with extensive knowledge of environmental testing procedures, project development, and work-site safety protocols
- Ability to create detailed design plans using AutoCAD
- Skilled in reading and interpreting technical documents, blueprints, and construction plans
- Proficient in effective bilingual communication (English and French) with clients, contractors, and project teams in the construction industry

EDUCATION

Master of Building Engineering – Specialization in Construction Management 2040

Concordia University, Montreal, Quebec

- Grade Point Average: 4.0/4.3 * Graduated with High Distinction
- Selected courses: Project Management, Durability of Building Materials and Components, Construction Planning and Control, Legal Issues in Construction, Construction Processes

Bachelor of Civil and Environmental Engineering 2038

Seoul National University, Seoul, South Korea

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, Visual Basic 6.0, HTML

Operating Systems: Windows, Mac OS, Linux

Software Packages: AutoCAD, GS 200, CarrieE20II, MS Project, MS Office

TRAININGS AND CERTIFICATIONS

ASP – Health and Safety on Construction Site 2040

Concordia University, Montreal, Quebec

Microsoft Excel for Construction Management 2039

Udemy

CAREER RELATED EXPERIENCE

Construction Engineering Intern June – August 2039

Aecon, Montreal, Quebec

- Ensured that building codes and regulations were followed by contractors for the duration of the project, demonstrating diligence and attention to detail
- Collaborated closely with engineers and project managers to optimize the planning and scheduling of construction projects, resulting in a 25% reduction in project costs
- Effectively managed inventory of equipment, ensuring sufficient supply for all ongoing projects while reducing waste and optimizing storage space

Engineering Intern

Summer 2038

NCK, Montreal, Quebec

- Inspected and maintained boilers and air conditioners alongside technicians
- Installed and maintained security systems such as cameras and digital key cards
- Produced reports on construction conditions and recommended repairs and renovations to improve building efficiency
- Monitored energy usage and installed energy-efficient lighting and heaters

PROJECTS

Ground Source Heat Pump, Concordia University

Winter 2040

- Developed a ground source heat pump plan capable of servicing an office building
- Analyzed data and performed calculations, enhancing system performance by 25%
- Devised a heat pump system, cutting heating costs by 30% using Excel and Gs2000 software
- Collaborated with 4 classmates and presented the project to groups of Concordia students

Energy Audit, Concordia University

Fall 2040

- Collaborated on an energy efficiency assessment, skillfully pinpointing heat loss and air leakage
- Conducted tests to find areas of heat loss and air leakage
- Generated a detailed recommendation on cost-effective energy conservation

Air Quality, Concordia University

Winter 2039

- Investigated air quality in an indoor swimming pool providing insight on health concerns
- Recorded data using temperature and relative humidity loggers
- Conducted visual inspections and obtained air samples using an air sampler pump/filter
- Analyzed air samples, and interpreted HVAC plans determining airflow (ASHRAE)

ADDITIONAL WORK EXPERIENCE

Computer Lab Assistant

2038 – 2040

Concordia University, Montreal, Quebec

- Assisted diverse range of students with programming and software questions daily
- Spearheaded the installation and updating of software monthly, ensuring seamless functionality of all programs and reducing system downtime by 25%.

EXTRACURRICULAR EXPERIENCE

VP of External Affairs

2036 – 2038

Engineering and Computer Science Association, Seoul National University, Seoul, South Korea

- Collaborated in organizing annual fundraising drive bringing in over \$3000.00

INTERESTS

Automobile mechanics, Graphic design, Building engineering blogs, Science fiction novels