

Austin Lalonde

Bachelor of Science in Mechanical Engineering

Calgary, AB

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Highlights

- **Project Management:** Skilled in managing projects of medium complexity including planning, budgeting, crew scheduling, stakeholder communication and documentation.
- **Microsoft Office** Excellent computer skills with proficiency in Excel, Project, Word and Power BI.
- **Software/Programming:** Skilled in MATLAB, Python, SOLIDWORKS (CAD), Ansys, and SimaPro.
- **Collaborator:** A strong collaborator with exceptional verbal and written communication skills.
- **Adaptive Learner:** Able to quickly learn and understand new and complex concepts.
- **Field Safety:** Skilled in ensuring site-level safety procedures are understood and followed.

Education

University of Calgary

Bachelor of Science in Mechanical Engineering, Graduated with Distinction 2019, GPA: 3.62/4.00

Bishop Grandin High School

Diploma Awarded 2014, Yearly Honour Roll

Career History

TC Energy, Pipeline Integrity Project Management Intern

May 2017 – August 2018

Reporting to Pipeline Integrity Project Managers, I was accountable for scheduling, budget estimation, procurement, engineering design reviews, construction plans, HSE compliance, quality control, and reporting.

Key Successes

- Independently managed a successful integrity dig project consisting of 50 people.
- Consistently delivered projects on time and within 5% of the estimated budget.
- Chosen to train new interns based on my past successes and deep knowledge.
- Created an automated management report using Power BI that consolidated reports from over 300 sites. Weekly reporting time was reduced from two hours to less than five minutes.
- Designed process and built a Power BI report to track welding inspector locations and demand. New processes significantly improving welder efficiencies through better scheduling.
- Improved team's quality framework by updating inspection test plans (ITP) and ensuring all field documents are promptly verified. Improved timeliness of post-project quality verification from six months to less than a week.
- Visited field monthly to ensure quality and safe work was being performed.

Hydra Landscaping, Landscaper

Summer 2014 – 2016

Reporting to lead field manager, I led crews and operated large, high-speed mowing equipment for 12-hour shifts.

Key Successes

- Promoted to a leadership position based on a strong work ethic, communication skills, dedication, and the ability to coach team to efficiently complete work.

Technical Projects

Through academic studies I researched, designed, and implemented successful projects. Demonstrated engineering skills with thorough research and a practical ability to easily apply theoretical concepts.

Capstone Project

Successfully built and delivered on time a motor-operated wind turbine. The business sponsor loved the prototype and leverages it to evaluate their laser scanning technology in daily operations.

- Managed the project including scheduling and communications.
- Performed rigorous mechanical calculations to ensure safe operation.
- Collaborated with team to create CAD designs, manufacture parts and assemble turbine.
- Learned and developed Arduino code to monitor and report on RPM sensors.
- Performed testing and developed safe operational procedures.

Fatigue Analysis and Design of Fall Protection

- Performed a failure analysis of rock-climbing equipment to determine vulnerabilities.
- Provided results and recommended maintenance and replacement schedules.
- Results were successfully used by rock climbers to ensure high safety.

Truss Bridge Stress Analysis

- Used MATLAB to determine the maximum structural stresses throughout a truss bridge due to varying external forces. Plotted results in 3D and achieved a final grade of 100%.

Professional Development

- Excel Essentials Training – Lynda.com
- Python Coding Bootcamp – Udemy.com
- Machine Learning Coding A-Z – Udemy.com
- Business Case Development – Harvard ManageMentor

Interests and Sports

- **Travelling:** Travelled through Southeast Asia and Europe for the Summer of 2019
- **Reading:** Average reading a book every two weeks
- **Basketball:** Played basketball from age 9 to present. Regularly chosen on starting line-up.
- **Baseball:** Played baseball until high school including four all-star teams.