

# Keyur Parmar

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## Education

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**University of Alberta**, Edmonton, Alberta, Canada

Bachelor of Science in Mechanical Engineering

## Technical Skills

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**Design and Planning:** SolidWorks, Ansys, AutoCAD, Revit

**Programming and Scripting:** MATLAB, Python

**Miscellaneous:** MS Office Suite, Primavera, Adobe Suite, Maximo, Procore

## Work Experience

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**Mechanical and Electrical Project Coordinator**, Clark Builders – Edmonton, AB

Jan 2024 – Now

- Oversaw the mechanical and electrical scopes for \$100M in projects, including the University of Alberta Data Center and the Capital Care Norwood Health Care Facility, overseeing system designs, CAD markups, and stakeholder coordination to ensure successful project delivery
- Reviewed mechanical and electrical drawings prior to construction, identifying design conflicts and constructability challenges early that minimized delay and reduced additional cost
- Identified required mechanical and electrical isolations prior to work commencement, ensuring proper pipe drainage and electrical shutdowns were in place to maintain site safety and prevent unwanted leaks or disruptions

**Reliability Engineering Student**, Canadian Natural Resources Ltd. – Fort McMurray, AB

Sept 2022 – Apr 2023

- Increased the availability of most rotating assets by 33% via setting up a plan to implement predictive maintenance measures early in the lifecycle of the asset
- Automated maintenance tracking and reporting by building a maintenance dashboard in Power BI and integrating MATLAB and Excel tools, enabling real-time visualization of equipment health and improving decision-making for the team
- Diagnosed and mitigated motor bearing failures using Emerson vibration analysis tools and collaborated with field operations to implement corrective actions that improved reliability

**Project Coordinator**, Ledcor – Edmonton, AB

Jan 2022 – Apr 2022

- Tracked subcontractor progress using Primavera P6, updating completion metrics weekly and distributing detailed progress reports to owners and consultants monthly, improving transparency and accountability across the project lifecycle
- Accelerated building system turnover by 35% by implementing a digital turnover package system and optimizing document control workflows, which reduced manual processing time.

**Mechanical Engineering Student - Buildings**, WSP – Edmonton, AB

May 2021 – Aug 2021

- Designed HVAC systems using Revit and AutoCAD, performing load calculations and system sizing in accordance with ASHRAE standards to ensure energy efficiency and optimal performance
- Conducted site visits for QA/QC inspections and RFI resolution, verifying installation accuracy against design intent, and proactively addressing field issues by assessing conditions in persons

## Project Work Experience

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**National Stiltwalkers of Canada**, University of Alberta – Edmonton, AB

May 2023 – Dec 2023

- Designed and built a functional prototype of adjustable stilts capable of raising or lowering while in use, applying full-cycle product development from concept to fabrication
- Created detailed SolidWorks models and manufacturing drawings, and performed load and fatigue analysis using ANSYS to validate structural integrity through finite element analysis
- Prepared technical deliverables and written documentation such as drawings for all mechanical components of the final die assembly with appropriate GD&T, progress reports to document project progress and performed engineering calculation to take into account during initial concept design
- Led the physical manufacturing process, including material selection, machining, and assembly, gaining hands-on experience in prototyping and mechanical system integration

## Certifications

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SolidWorks - CSWA-Mechanical Design certificate | Google – Project Manager | Procore – Project Manager