

Professional Summary

Results-driven Engineering Professional with 8+ years of experience in material handling projects for the coal and cement industry. Proven expertise in designing and optimizing belt conveyors, reversible belt conveyors, bucket elevators, weight feeders, and related equipment. Skilled in Engineering Design, Design Engineering, and Mechanical Engineering, with a strong passion for innovation and process improvement.

Professional Experience

Senior Engineering Manager (EN10)

Inazuma.co | 2018 - Present

Engineering Team Lead (EN7)

TerraTech Inc. | 2015 - 2018

Key Achievements:

- Successfully led the design and implementation of a 5km long belt conveyor system for a major cement plant, resulting in a 25% increase in production capacity.
- Developed and implemented a quality control process that reduced equipment failure rates by 30%.

Responsibilities:

- Managed a team of 5 engineers in designing and optimizing material handling systems.
- Collaborated with clients to understand project requirements and deliver tailored solutions.

Senior Design Engineer (EN5)

CoalCorp Ltd. | 2012 - 2015

Key Achievements:

- Designed and implemented a reversible belt conveyor system that increased coal handling efficiency by 40%.
- Conducted site visits to troubleshoot equipment issues and provided effective solutions.

Responsibilities:

- Designed and developed detailed engineering drawings for material handling equipment.
- Worked closely with the procurement team to source equipment and materials.

Design Engineer (EN3)

CementCo Engineering | 2010 - 2012

Key Achievements:

- Assisted in the design of a bucket elevator system that reduced energy consumption by 20%.
- Developed and maintained accurate project documentation and records.

Responsibilities:

- Created 2D and 3D models of material handling equipment using CAD software.
- Collaborated with senior engineers to review and finalize design plans.

Education

Bachelor of Science in Mechanical Engineering

University of Michigan | 2010

Technical Skills

Engineering Design:

- CAD Design (AutoCAD, SolidWorks)
- FEA Analysis (ANSYS, ABAQUS)

Design Engineering:

- Material Selection and Specification
- Equipment Sizing and Optimization

Mechanical Engineering:

- Mechanics of Materials
- Thermodynamics and Fluid Mechanics