

KARAN VEER SINGH JERIAL

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PROFESSIONAL SUMMARY

Engineering Management graduate student with 6+ years of experience supporting cold rolling mill operations and capital projects in steel manufacturing environments. Background includes brownfield project execution, contractor coordination, and commissioning support in active plants. AIST PM 201 and EAF trained, with working knowledge of steelmaking and rolling mill process flows from a project and operations perspective. Seeking a Manufacturing Engineering or Capital Projects Co-op focused on cold rolling and flat products.

EDUCATION

Master of Engineering Management, Northeastern University, Boston, MA

Expected Aug 2027

Relevant Coursework: Operations Research, Probability and Statistics, Supply Chain Engineering, Project Management

GPA: 3.8/4.0

Bachelor of Engineering, Mechanical Engineering, PDM College of Engineering, India

Sept 2018

INDUSTRY TRAINING & CERTIFICATIONS

AIST-Project Management 201 (PM 201) – Association for Iron & Steel Technology

- Gained practical exposure to FEL 1–3 project development, capital approval workflows, and project governance in steel and heavy industrial environments.
- Learned application of CAPEX justification, cost estimating, risk assessment, and schedule development for brownfield and greenfield steel projects.
- Studied contractor management, execution challenges, and real-world case studies focused on safety, constructability, and commissioning readiness.

AIST-Electric Arc Furnace (EAF) Steelmaking Certificate – Association for Iron & Steel Technology

- Developed foundational understanding of EAF steelmaking operations including raw material charging, melting, refining, and tapping processes.
- Learned key operational variables such as energy consumption, electrode management, slag practices, and productivity drivers.
- Gained exposure to safety practices, process controls, and quality considerations in modern electric steelmaking facilities.

TECHNICAL SKILLS

Project & Operations: Capital Project Support, Schedule Tracking, Budget Monitoring, Earned Value Analysis, Contractor Coordination, Risk Identification, Commissioning Support, Manufacturing Integration, RFP/RFQ/RFI Assistance, Stakeholder Communication

Technical: Equipment Specifications, Scope of Work Development, Technical Drawings, As-Built Documentation, SOP Development, Microsoft Office Suite, AutoCAD, SAP | Steel Manufacturing, Industrial Equipment, Quality Assurance, EHS Compliance

PROFESSIONAL EXPERIENCE

Manufacturing Operations Manager | BTR Pvt. Ltd. (Steel Manufacturing), India

July 2022 – Aug 2025

- Supported budgeting, scheduling, scopes of work, and technical documentation for \$500K+ capital projects.
- Coordinated contractors, vendors, and internal teams to support safety, quality, and schedule compliance.
- Supported equipment commissioning and manufacturing integration through documentation readiness and cross-functional coordination.
- Collaborated with procurement, production, quality, and maintenance teams to support operational readiness.
- Contributed to cost reduction and capacity improvement through supplier evaluation and process optimization initiatives.

Project Engineer | BTR Pvt. Ltd. (Steel Manufacturing), India

April 2019 – May 2022

- Supported capital and equipment installation projects by tracking schedules, coordinating resources, and assisting on-site execution.
- Assisted with bid evaluations, RFIs, and vendor interactions for major industrial equipment purchases.
- Prepared detailed project documentation including schedules, equipment specifications, SOPs, and progress reports.
- Coordinated installation, testing, and commissioning activities in compliance with safety and manufacturing requirements.
- Applied structured problem-solving techniques to support risk mitigation and continuous improvement initiatives.

KEY CAPITAL PROJECTS

Greenfield Manufacturing Plant Establishment – Supported execution of a new steel processing facility from concept through commissioning. Assisted in RFQ/RFP processes for cranes, lathes, grinding machines, and material handling systems. Supported contractor coordination on a \$500K+ CAPEX project delivered on time and under budget.

Custom Industrial Furnace Development – Assisted in equipment design, specification development, vendor coordination, and commissioning. Contributed to cost optimization, reduced cycle time, and improved equipment reliability.

Roll Reconditioning Service Line – Supported development of a new service capability including process documentation, supplier coordination, and quality standard setup, resulting in reduced customer lead times.