

DUC HAO VU

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Professional Summary: Graduate student in Industrial Management with hands-on experience in industrial operation and manufacturing. Skilled in process optimization, internal audit, quality control, lean manufacturing, defect minimization, production – maintenance management, and advanced engineering - office software, seeking an entry-level engineering position where I can apply my manufacturing experience, improve production processes, and contribute to continuous improvement and quality initiatives.

SKILLS

Expertise: Data Visualization, Decision-Making Based on Data, Industry Operations, 3D Technical Drawing, Deform Simulation, SOPs, Quality & Lean Management, Six Sigma, Root Cause Analysis, 5S, Kaizen, Poka-yoke, Gemba-walk.

Tools: AutoCAD, Inventor, Deform 3D, Excellent skills with MS Word - PowerPoint - Excel (VBA, pivot tables, power query, complex formulas), Python, Minitab, Power BI, Canva, SAP S/4HANA.

Certifications: Lean Six Sigma Green Belt; SAP – Material Management – Production Planning; OSHA-10.

Soft Skills: Presentation, Fast Learner, Team Collaboration, Critical Thinking, Planning, Detail-oriented, Analytical and Problem-Solving.

EDUCATION

Master of Science in Industrial Management

Jan 2025 - Dec 2026

California State University, Los Angeles (Cal State LA).

- Coursework: Adv. Project Management, Total Quality Management, Industrial Financial Decision, Product Conceptualization, Adv. Manufacturing Processes, Technology Forecasting and Assessment.
- C. GPA: 3.9/ 4.0

Bachelor of Engineering in Material Engineering

Aug 2019 - Jul 2023

Ho Chi Minh City University of Technology - Polytechnic of Vietnam National University (HCMUT).

- Thesis: Designing continuous slit rolling steel technology to produce D14 CB240-T, with a capacity of 400,000 tons per year, including production planning, capacity and scheduling analysis, equipment selection, rolling parameters, and groove design.
- Project: Applying a 3D deformation simulation for the first-stage rough rolling of hot steel using DEFORM 3D. Designed a base layout plan for a rolling plant. Designed production schedule for the rolling process.
- Achievement: Awarded three academic scholarships for great coursework performance.

EXPERIENCES

Manufacturing Process Engineer

Jul 2023 - Dec 2024

POSCO YAMATO VINA STEEL

- Produced hot-rolled large-section steel: H, I beam, Parallel Flange Channel, V-shaped steel, Sheet Piles steel. Controlling production indices, Machine management, Wear parts, Safety practices, Kaizen and 5S implementation.
- Reduced furnace gas consumption by ~2% (44.7 → 43.9 Nm³/ton) of product HS 150x100 by lowering the temperature 1150 to 1110°C.
- Worked with the process team to increase throughput by reducing rolling/cutting cycle time 5s for BB1 material on BDM and UFR mills.
- Reduced defect rates by ~80% during initial production shifts and size changes by resolving roll marks, wavy flange-web, and head bending through data-driven analysis of roll force, temperature, and gap settings.
- Implemented a two-hand crane control system (Poka-yoke) to minimize operator error and near-miss incidents.
- Prepared documents in collaboration with cross-functional teams for ISO 9001 audits - sample inspections of operations (ruler and gauge calibration, operator's measurement behaviors, product dimension tracking system). Internal audit - RHF operation guide documents (heating pattern, temperature control and standards, materials arrangement inside, material inspection, descaling system).
- Coordinated with production team to forecast monthly gas usage and yield; generating KPI reports for procurement and scheduling.
- Worked with maintenance and operation teams to restore UR/UF vertical-roll water-cooling system functionality, reducing downtime.

Private Teacher, Research Assistant, Part-time Jobs

Jan 2020 - Feb 2022

- Teaching English and Math for 2 secondary students. Teaching Physics for a first-year undergraduate student, in 1.5 years.
- Support the research team, lab assistant in Ho Chi Minh City University of Technology (HCMUT), in 4 months.
- Held various part-time service jobs while studying, demonstrating adaptability, hard-working and work ethics.

INTERNSHIPS

Manufacturing Engineer Internship Full-time

May 2022 - Aug 2022

HOA PHAT DUNG QUAT STEEL JSC

- The company is the largest steel plant in Vietnam, the main products are construction steel, high quality rolled steel and hot rolled coil.
- Received hands-on experience in time management, production and maintenance management, scheduling and planning, quality control and safety.
- Internship course tasks: Company overview, Studying organizational structure, Materials, Production process – production incidents, Labor safety and hygiene, Technological process – diagrams, Main equipment, Main and Secondary Products – defects.