

Kadir Gelincik

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PROFILE

Mechanical Engineer specialising in bespoke machinery, multi-axis automation, and mechanical system optimisation. Proven ability to deliver comprehensive engineering solutions, Design for Manufacture (DfM), Project Lifecycle Management, encompassing CAD design, technical calculations, and successful on-site installation and commissioning. **Now fully available for full-time employment, with only the final dissertation submission remaining for MSc in Engineering Management.** Eligible to work in the UK without sponsorship and open to relocation.

EDUCATION

MSc Engineering Management, Cardiff University 2025 - Current (in dissertation term)

Dissertation: Life Cycle Analysis of a Circular Manufacturing Process Chain: Investigating the environmental sustainability of a circular production process converting metal scrap into additive manufacturing (AM) powders. Applying Life Cycle Analysis (LCA) to map process chains, measure energy consumption, and identify optimisation opportunities against traditional resource-heavy methods.

- **Making and Checking (72%):** Acquired practical knowledge of Renishaw CMM and Renishaw Equator machines. Improved skills in analysing dimensional data and gained a strong understanding of Reliability Engineering processes.
- **Management Skills for Engineering (72%):** Studied Supply Chain and Operations Organisation, as well as Marketing environments specifically for engineers.
- **Being Sustainable Solutions (69%):** Engineering approaches to climate change, resource scarcity, and sustainability-driven decision-making.
- **Leadership, strategy and innovation (66%):** Developed advanced capabilities in authentic leadership, strategic planning, innovation management, and organisational change, with a strong focus on sustainability, stakeholder engagement, and engineering-driven process improvement.

BSc Mechanical Engineering, Çukurova University, Türkiye September 2016 - March 2022

Completed a comprehensive, four-year Bachelor of Science in Mechanical Engineering (240 ECTS) delivered entirely in English. The industry-aligned curriculum provided the essential analytical tools necessary for the development, design, and production planning of mechanical systems and energy conversion units. Acquired a strong theoretical foundation in basic engineering sciences alongside extensive hands-on laboratory experience, allowing for the direct translation of theoretical knowledge into practical application. Honed advanced experimental and computational skills across core technical branches, including machine theory and dynamics, thermodynamics, and manufacturing, specifically tailored to meet modern industry demands.

- **Relevant Modules:** Engineering, manufacturing and construction, mechanics, motor vehicle and aircraft engineering.
- **Thesis:** Designed, manufactured, and programmed a fully functional five-axis 3D printer prototype, achieving sub-millimetre printing tolerances over a 6-month development cycle.

Associate Degree in Mechanical Drawing, Dokuz Eylul University, Türkiye September 2012 - September 2015

Established a strong practical foundation through a comprehensive programme that seamlessly integrated mechanical theory with hands-on workshop experience. The studies focused heavily on Computer-Aided Design (CAD), material science, and advanced manufacturing processes, effectively bridging the gap between technical drafting and physical production. Furthermore, I gained practical expertise in industrial tooling, machine elements, and quality control, which was solidified during a 40-day industrial internship. This hands-on training provided a deep understanding of how to translate complex technical specifications into highly manufacturable solutions.

High School Diploma (Industrial Moulding), Atatürk Anatolian Tech, Türkiye 2008 - 2012

Designed and built precision moulds using machining, lathes and drills to strict tolerances of +/- 0.05mm.

RELEVANT EXPERIENCE

Product Design Engineer, Yıldız Endüstri, İzmir, Türkiye February 2024 - December 2024

- **Technical Implementation:** Led a 3-week on-site installation for a UK-based firm, resolving technical design conflicts and ensuring project delivery 10% ahead of schedule.
- **Design Optimization:** Conducted technical site evaluations at active plants to refine final product layouts, directly improving manufacturing output by 5% and spatial efficiency.
- **Engineering Oversight:** Analysed manufacturing field reports to resolve design-production discrepancies, strengthening quality assurance processes and reducing specification-related deviations by 9%.
- **Industry Engagement:** Represented the company at major international trade shows, including the Waste Management Expo (Russia) and Waste & Recycling Expo (UK), to identify emerging industrial technologies.

Junior Product Design Engineer, BSK Global, İzmir, Türkiye April 2022 - January 2024

- **System Design:** Engineered bucket elevators and conveyor systems using SolidWorks PDM, optimising motor and gear reducer selection to reduce energy consumption by 3% across multiple projects.
- **International Project Lead:** Led the full mechanical design of a cement conveying facility in Mexico, optimising layout efficiency by 8% and delivering a complete BOM package with 98% compliance to project specifications.
- **ERP & Data Management:** Developed IFS (ERP) structures that increased documentation accuracy by 7% and reduced design-to-procurement delays by 11%.
- **Site Engineering:** Executed detailed site investigations to refine and finalise plant layouts, reducing structural/mechanical clashes by 19% and improving installation readiness.

Internship & Technical Draftsman, Ar Endüstri, İzmir, Türkiye June 2014 - October 2016

- **Regulatory Compliance:** Redesigned over 15 forklift and backhoe loader components to meet strict ATEX standards, ensuring 100% safety compliance for hazardous environment operations.
- **Mechanical Systems:** Engineered mechanical designs for heavy equipment, collaborating with a cross-functional team of 5+ international engineers to seamlessly implement multilingual design requirements across 3 major projects.

OTHER EXPERIENCE

Usher Volunteering, Sherman Theatre, Cardiff February 2024 - Current

- Developed strong cross-cultural communication and customer service skills within a fast-paced UK arts environment, assisting audiences of up to 200+ patrons per event.

RELEVANT SKILLS

- **CAD & Simulation:** SolidWorks (CSWA, CSWP, Sheet Metal, Weldments), AutoCAD, NX, CATIA, Ansys.
- **Manufacturing & Engineering Tools:** SolidWorks PDM, IFS ERP, GD&T fundamentals, G-Code interpretation, CMM/Equator familiarity.
- **Engineering Competencies:** Mechanical design, system optimisation, installation & commissioning, technical problem-solving, layout design, ATEX-related redesign.
- **Languages:** English (professional proficiency), Turkish (native).

CERTIFICATIONS

- SOLIDWORKS Design Associate (CSWA)
- SOLIDWORKS Sheet Metal Professional
- SOLIDWORKS Weldments Professional
- SOLIDWORKS Design Professional (CSWP)
- SOLIDWORKS: Design Study and Optimization (LinkedIn)
- Introduction to Geometric Dimensioning and Tolerancing (LinkedIn)

References Supplied on Request