

Naz GENC

 [naz-genc.github.io/portfolio](https://github.com/naz-genc/portfolio) |  <https://www.linkedin.com/in/genc-naz/> |  naz.genc.uni@gmail.com

EDUCATION

Istanbul Technical University & SUNY Binghamton

Industrial Engineering International Joint Degree Program

Sep 2021 – Ongoing
Istanbul, Turkey & NY, USA

- **Anticipated Graduation:** June 2025
 - **BSc in Systems Science and Industrial Engineering from SUNY Binghamton**
 - **BSc in Industrial Engineering from Istanbul Technical University**
- **Senior Project – ISE 492 System Design:** [Group]
 - Wrote a project proposal for the Universal Instruments Fabrication Center so that they can
 1. maximize efficiency and throughput, minimize waste via sustainable and lean manufacturing practices, and streamline inventory management and storage to reduce delays and stockouts
 2. arrange cross-training and resource allocation to address labor shortages
 3. develop scalable solutions to adapt to future demands without exceeding budget
 - Analyzed the center's baseline systems and identified inefficiencies or outdated practices
 - Used simulation models and analytic tools such as FMEA and DMAIC to identify bottlenecks
 - Proposed implementation of lean manufacturing principles such as the 5S system and ABC analysis, use of the two-bin system for inventory optimization, and potential hiring and cross-training schemes
- **Relevant Coursework:** System Design, Industrial Automation Control, Additive Manufacturing, Marketing & CRM Analytics, Healthcare Data Analytics, Enterprise Systems, Engineering Project Management, Linear Algebra, Engineering Economics, Engineering Computing, Probabilistic Systems I & II, Calculus I & II & III, Industrial Automation & Control, Quality Engineering, Production & Schedule Control, Justice & Housing in America, Physics I & II, Introduction to Stochastic Modelling, Operations Research I & II, Supply Chain Management, Technical Drawing, Chemistry I, Ergonomics, Data Management in Industrial Systems, System Simulation, Innovative Management & New Product Development
- **Select School Projects:**
 - **ISE 470 Industrial Automation Control:** [Group] FluidSIM Project
 - Developed a FluidSim model of a potential food processing line using Festo pneumatic, electronic, and logic controls with pneumatic cylinders, solenoid valves, relays, and sensors to perform the following functions: move items through the processing line, evaluate items for acceptance or rejection, and execute a cutting action for items that meet the rejection criteria.
 - Tested and validated the model using the FluidSIM simulation, demonstrating a potential for real-world application in the food processing industry
 - **ISE 485 Additive Manufacturing:** [Individual] Antibacterial Coatings for Medical Implants
 - Examined the development of antibacterial coatings for titanium implants to address the challenge of implant-associated infections
 - Explored the use of materials like silver, copper, and zinc to inhibit bacterial adhesion and biofilm formation while enhancing the biocompatibility of implants.
 - Investigated advanced techniques such as plasma electrolytic oxidation and nanotechnology to optimize the durability and efficacy of these coatings in medical applications
 - **SED 315 Marketing & CRM Analytics:** [Individual] CRM Analytics on Online Dating Apps
 - **ISE 448 Healthcare Data Analytics:** [Individual] Hospitalization Trends in Rural and Urban Areas

Private Cakabey Schools

Sep 2017 – Jun 2021

- Graduated as a high-honor scholarship student

WORK EXPERIENCE

Erze Plastic Straps Industry and Trade Inc.

Intern & Management Trainee

Summers Between 2021 – 2024 [3-Month Intervals]

Izmir, Turkey

- Worked in different departments each summer interval to gain familiarity with the business organization and workflow between departments as part of a management trainee program
- Explored the company's quality control protocols and their currently-held certificates for quality, environment, and operational health & safety
- Assisted the company's commitment to reducing the impact of plastic strap and stretch film production on the environment and human health which includes efforts to reduce and safely dispose of waste, make mindful decisions in recyclable materials for production where possible, and raise awareness among employees, customers and suppliers on these decisions and potential impacts

ACADEMIC ENRICHMENT ACTIVITIES

Self-Paced Online Courses for Career Preparation

- Joined BTK Akademi, a learning platform organized by the Turkish Information and Communication Technologies Authority, to expand my professional skillset and earn certificates in important practical areas:
 - Several software and online resource courses such as Fundamentals of Microsoft Word, Fundamentals of Microsoft Excel, Applied Canva, and Effective LinkedIn Profile Building
 - Several communication-related courses such as Presentation Techniques and Communication Management in Entrepreneurship, Communication and Networking Management, Persuasion Techniques, and Interview Techniques
 - Digital Literacy

Vocal Training and Teaching Experience

- Took 5 years of singing lessons and entered examinations accredited by the Turkish National Ministry of Education to receive certification for becoming a singing teacher
- Joined the Association for Supporting Contemporary Life, a Turkish NGO, as a volunteer singing teacher in one of their educational centers
- Earned entry into Bahcesehir University's Jazz Certificate Program with a 30% scholarship
- Attended activities and competitions as a soloist in my high school's orchestra for 3 years

Six Sigma Green Belt Training

- Studied the DMAIC (Define, Measure, Analyze, Improve, and Control) model for enhanced problem-solving skills with special attention to potentially lead or support project teams

EXTRACURRICULAR ACTIVITIES

- Attended prestigious local and international European Youth Parliament and Model United Nations activities throughout high school, chief of which was the European Youth Forum Trogen organized by the Children's Foundation in Switzerland which I gained scholarship entry via German and English language exams
- Prepared a project about the cognitive development of girls between the ages of 3 and 7 in high school and was accepted to present it at the Expo-Sciences International 2019 Behavioral and Social Sciences in Abu Dhabi
- After years of participating in Future Stars, a Turkish camping and education organization for children and member of the International Camping Fellowship, as a camper, was invited to train and become a camp coach

SKILLS AND HOBBIES

- **Technical:** AutoCAD, MATLAB, Python, Arena Simulation Software, Simio
Microsoft Office (Word, Excel, PowerPoint)
- **Language:** Turkish (Native), English (Advanced), German (Beginner)
- **Other:** Technical drawing, singing (jazz)