

Aleyna Bolcu

Senior Chemical Engineering Student

EU Work Permit



I am a senior Chemical Engineering student who is eager to learn and wants to consolidate theoretical knowledge in the workplace environment, and will graduate in June 2025.

CONTACT

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İzmir, Turkey

EDUCATION

Izmir Institute of Technology (Chemical Engineering Undergraduate Program)

2020 - Present

High Honor Student

GPA : 3.32 / 4

Izmir Atatürk High School

2016 - 2020

96.6 / 100

PROFESSIONAL EXPERIENCES

TÜPRAŞ

10.2024 - 01.2025

Project Intern

Completed a project internship focused on "Effect of Inlet Temperature and Column Pressure in the Stabilizer Column on Fuel Consumption in the Stabilizer Furnace." Gained hands-on experience in a refinery environment, applying chemical engineering knowledge to industrial processes. Enhanced technical expertise and professional skills in energy efficiency and operational optimization within refinery operations.

Yüksel Research Group

10.2024 - Present

Volunteer Undergraduate Student

Volunteered in Prof. Dr. Aslı Yüksel Özşen's laboratory, contributing to research on bio-hydrogen production using organic waste derived from the thermochemical conversion of Turkish pine.

Akzo Nobel Kemipol

07.2024 - 09.2024

Project Intern (Colors of the Future Project Internship Programme '24)

Completed a 3-month project internship in the Wood Coatings R&D Department, focusing on solvatochromism in alkyd, nitrocellulose, and isocyanate resins. Conducted research on the solvatochromic behavior of dyestuffs and solvents while gaining comprehensive experience in R&D processes and detailed insights into paint and polymer production.

PilenPak Ambalaj San ve Tic.

07.2023-08.2023

Production Intern

Participated in a one-month internship in the production field, gaining hands-on experience in packaging processes, industrial machines, and materials (polymers, paper, glue, etc.). Additionally, developed skills in ink application and surface distribution.

SYMPOSIUM

KOMPEGE 2024

11.2024

VI. International Ege Composite

Materials Symposium

'Investigating the Solvatochromic Properties of Acid Blue 193 for Optimization of Colour Stability of Wood Coatings'

COURSES

Bio-Based & Water-Based Coatings

11.2024

European Coatings Conference

Mathworks Training Services

04.2022

MathWorks

Basic Entrepreneurship Program

03.2024

Aygaz A.Ş. & Learneco

PROJECTS

Effect of Inlet Temperature and Column Pressure in the Stabilizer Column on Fuel Consumption in the Stabilizer Furnace 01.2025

Optimized operating conditions in TÜPRAŞ's crude oil distillation unit to improve energy efficiency and reduce fuel consumption.

Reactor Design 06.2024

Designed on-purpose propylene production reactors with propylene dehydrogenation (PDH) for direct propylene production.

Seperator Design 06.2024

Designed a new value-added chemical plant that will convert furfural into maleic anhydride (MAN) including an absorption column and a multi-stage distillation column.

Heat Exchanger Design 01.2024

Designed of a steam superheater in a nitric acid production plant.

Fluid Flow / Piping Design 07.2023

Designed of a industrial facility using green ammonia as a hydrogen carrier.

Biobased Flame Retardants 01.2022

Conducted research on bio-based flame retardants, exploring their current industrial applications and identifying potential future use cases based on their efficacy and sustainability.

CERTIFICATES

Yüksek Onur Öğrencisi 2023 / 2024

İzmir Yüksek Teknoloji Enstitüsü Rektörlüğü

Create a Project Management Tracker using Microsoft Excel 02.2024

Coursera

How to Use Lookup Reference Math and Text Functions in Excel 11.2023

Coursera

Learning Series: Python 06.2023

IYTE Chemical Engineering Student Society

Learning Series: Aspen Plus 06.2023

IYTE Chemical Engineering Student Society

Ekonomi Eğitimi 04.2023

İzmir Yüksek Teknoloji Enstitüsü Sürekli Eğitim Merkezi (İYTESEM)

ORVILLE Learning Hub 06.2023

Oyak Renault & Youthall

MatLab Programming Course Completion Certificate 04.2022

MathWorks

LANGUAGES

Turkish (Native)

English (Full Professional Proficiency)

SKILLS

MATLAB

Microsoft Office