

# AYTÖRE ARIKAN

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## EDUCATION

### MIDDLE EAST TECHNICAL UNIVERSITY

M.S. IN CHEMICAL ENGINEERING  
2023 – Present

CGPA: 3.57

### MIDDLE EAST TECHNICAL UNIVERSITY

B.S. IN CHEMICAL ENGINEERING  
2019 – 2023

CGPA: 3.35

- Exempt from Basic English Department

## CERTIFICATES

- IBM: Analyzing Data with Excel (2021–Present)
- FedericaX: Global Politics (2021–Present)
- IBM: Python Basics for Data Science (2021–Present)
- IBM: AI for Everyone (2021–Present)
- Certificate of Enrollment – Language Study Centres, Bristol (06/2015)
- TOEFL-IBT: 95

## SKILLS

### PROGRAMMING

Python • R Studio • LAMMPS  
• MATLAB • Simulink ASPEN Plus  
• ASPEN Energy Analyzer • LaTeX  
Microsoft Office • Ovito

Familiar:

C • NX Siemens

### SOFT SKILLS

Scientific Blog Writing • Mythology Research • International Relations

### LANGUAGES

English • German • French

## SOCIETIES

- IEEE METU Power and Energy Society – Member (2020–2023)
- MUN Club – Delegate, Atatürk High School (2014–2017)

## EXPERIENCE

### METU CHEMICAL ENGINEERING | RESEARCH AND TEACHING ASSISTANT

03/2024 – Present | Ankara, Turkey

### METU CHEMICAL ENGINEERING | GRADUATE RESEARCHER

06/2023 – Present | Ankara, Turkey

- Conducting M.S. thesis under Prof. Dr. Pinar Zeynep Çulfaz Emecen on “Nanofiltration Membranes for Separation of Neutral Organic Molecules and Salts” for SOCAR Turkey.

### TURKISH AEROSPACE INDUSTRIES | PRODUCTION ENGINEERING INTERN

07/2022 – 08/2022 | Ankara, Turkey

- Interned at chemistry-related production units.

### SOCAR TURKEY – STAR REFINERY | PRODUCTION INTERN

08/2021 – 09/2021 | İzmir, Turkey

- Conducted design, material, and energy balance calculations for Naphtha Hydrotreating Unit.

## RESEARCH

### ÇULFAZ-EMECEN GROUP, METU | UNDERGRADUATE RESEARCHER

03/2023 – 06/2023 | Ankara, Turkey

- Investigated polyelectrolyte multilayer membranes with cellulose for separation performance.

### FLUID FRAME LAB, BILKENT UNIVERSITY | UNDERGRADUATE RESEARCHER

02/2022 – 02/2023 | Ankara, Turkey

- Simulated mesoscopic Janus particles under thermophoresis with LAMMPS in TUBITAK STAR project under Assoc. Prof. Luca Bioncofiore.

### DATA SCIENCE LAB, METU STATISTICS | UNDERGRADUATE RESEARCHER

09/2021 – 01/2022 | Ankara, Turkey

- Developed big data projects in R and Unix; supported by ODTÜ-BAP under Assoc. Prof. Fulya Gökalp Yavuz.

## AWARDS

- METU Chemical Engineering Department Honor roll for 2019-2020 Spring, 2020-2021 Fall/Spring, 2021-2022 Spring Terms; High honor roll for 2021-2022, 2022-2023 Fall and 2022-2023 Spring Terms
- 2022 TUBITAK 2247-C STAR 2nd term undergraduate researcher scholarship
- 2019 Atatürk High School Education Foundation scholarship for ranking students
- Mention Awards: NATO Simulation (2016), MUNESCO (2016), EUROSima (2016)
- 2015 ALEV scholarship for summer language course in the University of the West of England, Bristol, UK

## PROJECTS

- METU Generation (2021):** Data science workshops with hands-on projects.
- IEEE TRBS PES Medium Platform (2020):** Blog series on 2019 Nobel-winning lithium-ion battery research.
- Ministry of National Education (2017):** Workshop on drug awareness for youth and vulnerable populations.