

Belfun Arslan

Research&Development Engineer

✉ belfunarslan@gmail.com

Eager to work in a dynamic environment, where I can be a part of the success and the experience.



EXPERIENCES

07.2021-04.2025

Research&Development Engineer

Mutlu Akü ve Malz. San.A.Ş.

Istanbul, Turkey

- Lithium-ion battery project development and coordination (Internal, Horizon Europe, University)
- Computational aided modeling
- Li-ion cell, module, battery performance, quality and safety tests
- Company patent, utility model, design research and management

INTERNSHIPS

07. 2019

Tüpraş, Kırıkkale Refinery

Kırıkkale, Turkey

Production internship in hydrocracker and hydrogen units.

09. 2018

DYO

Kocaeli, Turkey

Production internship in process production of paint and binder.

EDUCATION

09.2022-07.2024

MSc., Gebze Technical University – Chemical Engineering, GPA 3,93/4,00

Kocaeli, Turkey

Master Thesis: Thermal Modeling and Verification of a Pouch-Type Lithium-ion Cell Using Equivalent Circuit Modeling and Machine Learning

09.2015-06.2021

BSc., Izmir Institute of Technology – Chemical Engineering, GPA 2,55/4,00

Izmir, Turkey

PUBLISHING

2024

Thermal Equivalent Circuit Modelling and Experimental Validation of Pouch-type Lithium-ion Cell

Belfun Arslan, Özgün Yücel, Cem Hakan Yılmaz

9th World Congress on Momentum, Heat and Mass Transfer, Oral Presentation, **London, UK**

2023

Identification of Capacity Increase Mechanism During Early Cycle of Li-ion batteries by Electrochemical Impedance Spectroscopy

Belfun Arslan, Cem Hakan Yılmaz

3rd International Conference on AI ML, Data Science and Robotics, Oral Presentation, **Rome, Italy**

PATENTS

2023

PEM YAKIT HÜCRELERİ İÇİN ÇAPRAZ AKIŞ ALANINA SAHİP SERPANTİN Application No: 2023/019364

Belfun Arslan, Ertuğrul Güneş

YAKIT PİLİ BİPOLAR TABAKASI Application No: 2023/014132

Belfun Arslan, Ertuğrul Güneş

ENERJİ DEPOLAMA CİHAZI Application No: 2023/004914

Belfun Arslan, Cem Hakan Yılmaz, Anıl Özcan, Mine Ersöz, Tuğçe Gül, Mehmet Erkök

2022

ÇAPRAZ AKIŞ ALANINA SAHİP BİR SERPANTİN Application No: 2022/021653

Belfun Arslan

CERTIFICATES

Introduction to Programming for MATLAB, Technical University of Denmark, Coursera

SKILLS

ANSYS CFD, MATLAB, MS Office, ZsimpWin

HOBBIES

Trekking, Cycling