

BUSE OZKAN

Apartment 50 Jet Centro,
79 St. Mary's Road
S2 4AH,
Sheffield, UK

Mobile : (UK) 00447761935486
E-mail : buse1.ozkan@gmail.com
GitHub: <https://github.com/buseozkan>

Personal Statement

A Materials Science and Engineer from The University of Sheffield, recently withdrawn from a PhD in Materials Science and Engineering Department at The University of Sheffield due to being more enthusiastic about being a developer. Recently in 2021 June completed a fast track programme on Software Engineering and in 2020 graduated from a master's degree in Solar Cell Technology (MSc), at the University of Sheffield who was a Technical Control Metallurgist at Doncasters, Ross & Catherall Ltd.

A Junior Developer with knowledge and experience across the full-stack, looking to specialise and further develop my knowledge in the field. From the education and experiences gained the abilities to maintain and plan the most sustainable and financial way of designing websites and applications, as well as working on how to improve their performance and quality. Able to choose the most appropriate user-friendly techniques and processes to provide high quality service and support to every client with the most efficient way so that their needs are met. I have the research abilities to develop myself. Gained the experience and abilities to developing tests, analysing, and assessing the product. In additions to these abilities had been gained to be patient, dealing with complex problems and being creative, which are the things besides having very well teamwork skills, strong leadership skills, friendly communication skills and conflict resolution skills. Enthusiastic about learning, developing myself and improving the knowledge she has to.

EDUCATION

- **November 2020-April 2021 Software Engineering FastTrack Programme with Cyprus Codes & Manchester Codes**
 - Introduction to Programming
 - Programming Fundamentals – Node Package, OOP, DOM, JavaScript, Jest, Test Driven Development (TDD), Debugging, Git workflow
 - Programming Foundations – HTML, CSS
 - Backend – Docker, HTTP, Internet, the WEB, Databases, API development, Express.js, Sequelize
 - Frontend – ES6, React, Async, React Hooks, OAuth, Sass
- **October 2020-November 2021 The University of Sheffield PhD in Materials Science and Engineering (withdrawn)**

Project Title: Driving forward the future of magnetic materials through advanced micromagnetic simulation

The focus of this project looks at the simulating the response from different magnetic materials and include effects such as diffusion, grain boundaries and grain shape. Furthermore, the results will be combined with machine learning in order to map out possible optimised structures with a focused volume fraction, geometrical configuration and desired material properties, in order to provide design criteria. This project is supported by Volkswagen (VW).
- **September 2019-September 2020 The University of Sheffield MSc. Solar Cell Technology**

Graduation GPA: Merit (3.7 out of 4 for US GPA system)

- **September 2015-June 2018 The University of Sheffield Materials Science and Engineering with Industrial Management (BEng)**

2nd year GPA (British): 2:2

Graduation GPA (British): 2:2 (3.3 out of 4 for US GPA system)

Some of the courses taken:

- o Microstructure & Thermodynamics of Materials
 - o Introduction to Structural Materials Engineering
 - o Advanced Functional (Dielectric, Magnetic, Electronic) Materials (e.g Polymers, Alloys etc)
 - o Manufacturing Systems
 - o Surface Degradation and Protection
 - o Materials Manufacturing
 - o Failures and Analysis on Case Studies (e.g Turbines of Rolls Royce Aircrafts)
 - o Industrial Materials Processing
- **June 2015: Turk Maarif College, FAMAGUSTA, CYPRUS**
Cumulative GPA: **9.62/10** (High School Diploma)
Qualifications:
 - **A-levels: Mathematics (A), Chemistry (A), Physics (B)**
 - **AS-levels: Information and Communications Technology, (A)**
 - **IELTS: 7 out of 9.**

CAREER

- **Since May 2021 (part-time remote), Junior Developer at Cyprus Codes**
- **Since February 2020 – Blogger & Editor at <https://www.habereguven.com/> (Volunteer)**
- **Since January 2021 – Board Member, Social Media Content Creator at Magusa Genclik Birligi Dernegi (Volunteer)**
Instagram: <https://www.instagram.com/magusagenclikbirligi/>
Facebook: <https://www.facebook.com/magusagenclikbirligi.fbaccount>
- **November 2019-January 2020, Customer Consultant at Carphone Warehouse**
- **February 2019 – 2021, Editor, Content Creator for Social Media and Website, Blogger at Tabella.org (Volunteer)**
- **August, 2018 – August 2019 (Full-Time), Technical Control Metallurgist in Ross & Catherall Ltd, Doncasters Group Company, Sheffield, UK.**

Carrying out metal charge calculations for each alloy by manually manipulating the chemistry and charge weights due to sequencing, melt compliance checking for each cast that has been produced. Planning and sequencing melts due to chemistry issues and therefore configuring mould templates for alloys, carrying out materials controlling like booking on the raw materials with their chemistry attached ordering new raw materials and stock checks. I have been doing production and testhouse specification overchecking and creating like is the specification created satisfies the customer needs, finishings of the alloy for each alloy and customer, melting procedure in addition to those for each alloy and specification melting process to be checked and created.

Besides of those I have been involved in laboratory side of the work how the samples prepared for each analysis, XRF, Spectro, GDMS. And how those tests have been carried out. Also I have been working with quality department for non-conformances and investigations about technical side of the alloys with the help of A3 investigation and 8D problem solving techniques to improve the quality of the products that we produce.

Leading technical department KPIs and managing them, working how to improve the KPIs.

- **August, 2016 (Full-time), Internship in Bogaz Endustri ve Madencilik (BEM) Ltd. (branch of HOLCIM Lebanon COMPANY), CYPRUS.**

BEM gathers the activities of production and marketing of gray cement. Carrying tasks in lab like monitoring/updating the quality of cement and performing tests to be ensure that the quality is maintained, if not made arrangement to the ratio of raw materials.

Working in both the chemistry and physics lab to check the quality of the product and reporting the results.

Volunteering

Since 2011

- Selling postcards in a fund raising event for the Cancer Association in Cyprus.
- Organizing 'Pink Day' events for the Cancer Association every October.

May, 2016

- 24 Hour Inspire in The University of Sheffield.

Since January 2021

- Board member, social media content creator and social media manager at Famagusta Youth Association

Instagram: <https://www.instagram.com/magusagenclikbirligi/>

Facebook: <https://www.facebook.com/magusagenclikbirligi.fbaccount>

PROJECTS

- **University of Sheffield, Final Year Project (17/18 Academic Year)**

Project: Next Generation Solar Cells

Working on improving the efficiency of solar panels. My project involves working on photovoltaic cell material MALI (Methylammonium Lead Iodide). The results achieved have been used in supervisor's paper to be published.

- **University of Sheffield, Engineering You are Hired (2017, January)**

Project: Scavenging Energy from the Sewers

I have grouped with other students from different engineering disciplines, and we had designed a project where it is possible to generate electricity from the sewage water, where the house's, in Sheffield, electricity demand can be provided.

- **University of Sheffield, Global Engineering Challenge Week (2016, January)**

Project: Design a Recycling Plant

I have grouped with other students from different engineering disciplines, and we had designed a plant, which is for an undeveloped country, where it is possible to recycle the wastes from the houses within the city.

Certificates:

- Certificate of Attendance: **Problem Solving and Using Root Cause Analysis and 8D/G8D Training Course**

Publications

- **Co-author:** KUMAR, V., BARBÉ, J., SCHMIDT, W. L., TSEVAS, K., OZKAN, B., HANDLEY, C. M., FREEMAN, C. L., SINCLAIR, D. C., REANEY, I. M., TSOI, W. C., DUNBAR, A. AND RODENBURG, C. 2018, *Stoichiometry-dependent Local Instability In MAPbI₃ Perovskite Materials And Devices (DOI: 10.1039/c8ta08231f)*

PERSONAL SKILLS

- Self-motivated, capable of working independently or as a part of team.
- Ability to manage workload and priorities tasks.
- Project management skills.
- Good communication skills.
- Leading KPIs and managing them.
- Lean manufacturing abilities.
- Organized, managing projects whilst maintaining needed paperwork.
- Health and Safety awareness.
- Site supervision.
- 8D Problem solving skills.

Languages: Turkish & English.

IT SKILLS: Microsoft Office Programs (Excel, Access, Word etc.), MATLAB, CES Software, LINUX, FEM, Ansys, MINITUB, SPSS, Python, NMAG Software, GMSH Software, JavaScript, Frontend, Backend, HTML, SQL, MySQL, Docker, CSS, DOM, TDD, TypeScript, ES6, Object Oriented Programming (OOP), React, REST API, NPM packages, Git/GitHub, Canva, Adobe Packages.

Used Softwares: Slack, Notion, Trello, Miro.

Activities: National Tennis Player of TRNC, National Chess of TRNC, MAGEM (Famagusta Youth Center) Activist, MGB (Famagusta Youth Association) Board Member.