

Busra OZLU

Date of birth : 01/09/1995

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1. PERSONAL PROFILE:

Enthusiastic to learn and develop new skills and apply to real cases. Self motivated, hardworking, punctual and reliable person. Interested in cell biomaterial interactions in the context of regenerative engineering, drug design and delivery systems.

Trained in:

- *cell culture*: microscopic analysis, Trypan blue assay, DNA isolation, electrophoresis, thin layer chromatography
- *biomaterials*: surface properties and atomic force microscopy
- *biomechanics*: axial pull-out test for bone screws, bone compression test
- *biomedical sensors and transducers*: amperometric enzyme electrode, electrospinning for biosensor applications, mass sensitive biosensing principles, plasma polymerization
- *medical imaging systems*: principles of image reconstruction and data processing for computer tomography, ultrasound system, radiography and angiography systems.

2. EDUCATION:

- M.Sc: Biomedical Engineering (2017-Present)
 - TOBB University of Economics and Technology, Ankara, TURKEY
 - GPA: 4.00/4.00
- B.Sc: Biomedical Engineering (Class of 2017)
 - TOBB University of Economics and Technology, Ankara, TURKEY
 - GPA: 3.32/4.00, Rank: 2nd (Class of 2017)
- High School: İçel Anatolian High School (2009-2013), Mersin, TURKEY
 - GPA: 86.64/100

Relevant Courses Taken:

Cell and Molecular Biology, Medical Biology, Physiology for Engineers, General Chemistry, Advanced Biochemistry, Genetic Engineering, Fundamentals of Materials Science, Biomaterials,

Tissue Engineering, Biocompatibility, Biomechanics, Biomedical Signals and Systems, Medical Imaging Systems, Radiation Physics, Polymer Science and Engineering, Drug Design and Delivery, Process Analysis, Mass and Energy Transfer in Biological Systems, Chemical Reaction Engineering, Plasma Processes for Biomedical Engineering.

Conferences Attended:

- Future Medicine 2015, 7-9 October 2015, Ankara, Turkey.
- FP-7 KORANET (Korean scientific cooperation network with the European Research Area) Summer School on Novel Approaches in Non-Thermal Processing of Materials, 23-27 June 2014, Ankara, Turkey.

3. RELEVANT WORK EXPERIENCE:

- Intern, Medtronic, September-December 2016, Istanbul, TURKEY
 - Patient Support Assistant, Diabetes Department
- Intern, Biomaterials and Interface Tissue Engineering Laboratory, Columbia University in the City of New York, January-April 2016, NY, USA
 - Scaffold design, fabrication and characterization
 - Cell culture
 - Cell-biomaterial interactions
- Intern, TOBB University Hospital, May-August 2015, Ankara, TURKEY
 - Quality control and calibration of biomedical equipments
 - Cell culture
 - Tissue preparation for clinical and pathological characterization

4. SKILLS:

Languages:

Turkish : Native

English : Advanced (TOEFL ITP: 567/677)

German : Elementary

Computer Skills:

Programming C++, 5SPICE, ImageJ, Mathcad (Basic level), Matlab (Basic level)

5. VOLUNTEER COMMUNITY SERVICE:

Member of Turkish Alzheimer Association

- Providing the Alzheimer patients and their relatives with educational, medical, social as well as mental support.

6. SOCIAL ACTIVITIES:

- Sailing
- Swimming
- Painting (Special Jury Award in a school competition 2007, and 1st rank in a competition sponsored by Mersin Soda Sanayi Inc., 2008)