Berkay **Barlas**

ELECTRICAL AND ELECTRONICS · COMPUTER ENGINEERING

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Education

Technical University of Munich (TUM)	*Munich, Germany*
ACCEPTED AS ERASMUS EXCHANGE STUDENT	*Summer Semester 2020*

Koc University	*Istanbul, Turkey*
B.S. ELECTRICAL&ELECTRONIC AND COMPUTER ENGINEERING	*Oct. 2015 - Exp. May. 2021*

- GPA 3.80 / 4.00
- Received Semahat Arsel Scholarship which is given to top 300 among 2 million Students in National University Exam.

Science High School	*Tokat, Turkey*
RANKED 1ST AMONG MORE THAN 1 MILLION STUDENTS IN TURKISH HIGH SCHOOL ATTAINMENT EXAM	*Oct. 2011 - May. 2015*

Research

Koc University	*Istanbul, Turkey*
ADVISOR: PROF. M. CENGIZ ONBASLI	*Oct. 2017 - Present*

- Built and deployed overall Internet of Things(IoT) project with Raspberry pi, camera, temperature and weight sensors.
- Developed native mobile application for Android.
- Used machine learning algorithm for food recognition and several AWS stack including Rekognition, S3, Dynamodb, Lambda.
- Conducted penetration testing commissioned by national agency and corporation.

Koc University, Arcelik Research Center for Creative Industries	*Istanbul, Turkey*
ADVISOR: PROF. OGUZ TURAN BURUK	*Oct. 2016 - Oct. 2017*

- Worked on a research about applications of wearable technologies in gamification and prototyped a hand controller with Arduino and 3D Printing.

Experience and Projects

Multithreaded Game with Network	
SOFTWARE ENGINEERING PROJECT	*Oct. 2018 - Jan. 2019*

- Developed a online game based on Ultimate Monopoly board game with a team of 5 people and acted as a team leader.
- Designed Network and Thread related parts of project and applied GoF desing patterns.

Trendyol.com	*Istanbul, Turkey*
SOFTWARE DEVELOPER INTERN	*July. 2018 - Dec. 2018*

- Developing web services using REST API, Java Spring Boot, RabbitMQ .
- Implementing new features and microservices to Supplier and Admin Portal.

Stanford – Koc University CS Bridge Program	
TEACHING ASSISTANT	*Summer 2017-Summer 2018*

- Was section leader of a Java teaching program directed by Nick McKeown who has taught computer science at Stanford for 20 years.
- Was responsible for preparing and grading assignments, conducting problem solving sections, helping students during lab-hours and giving feedbacks to daily assignments.

Publications

Publication [1] M. C. Onbaşlı, B. Barlas, H. Eralp Kocas,"A Wireless Nutrition Tracking System with Mobile Phone Application ", unpublished.

Skills

Programming Languages	Java, Python, Matlab, JavaScript, C / C++
Coursework	Algorithms and Data Structures, Software Engineering, Advanced Programming, Structure and Interpretation of Programs, Teaching Computer Science,
Languages	English (Advanced),Turkish(Native)

Honors & Awards

2019	**Pixery Hackathon'19 Best Project Award**, Ranked 1st among preselected 12 teams
2019	**Ciceksepeti Hackathon'19 Best Project Award**, Ranked 1st among preselected 30 teams
2018	**Zeplin Hackathon Special Jury Award**, Awarded as most enthusiastic team to learn new concepts and tools
2018	**Dean's High Honor Roll** , Listed in Dean's High Honor Roll for Spring 2017 and Spring 2018
2014	**Participated**, TUBITAK Computer Science Camp
2015	**Ranked 273th among more than 2 million Students**, Turkish University Attainment Exam