

Berk Çiçek

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EDUCATION

Bilkent University, Faculty of Engineering, Ankara, Turkey 2022 — Present
M.Sc. in Computer Engineering CGPA: 3.96/4.0

Bilkent University, Faculty of Engineering, Ankara, Turkey 2017 — 2022
B.S. in Mechanical Engineering CGPA: 3.33/4.0

EXPERIENCE

LIRA Lab Ankara, Turkey
Graduate Research Assistant (Advisor: Asst. Prof. Ozgur Oguz) Sep 2022 - Present

- Drake and RAI robotics toolboxes, Franka Research 3 Robot System
Robotic Manipulation, Task and Motion Planning

Bilkent University Ankara, Turkey
Undergraduate Researcher (Supervisor: Asst. Prof. Luca Biancofiore) Mar 2020 – June 2022

- CFD and Particle Modelling via LAMMPS, OpenFOAM and MATLAB
Modelling Self-driven Complex Particles under Optical Potential

QNB Finansbank Istanbul, Turkey
Long Term Data Science Intern Feb 2022 – June 2022

- Data Analysis

National Research Center of Italy (CNR-IPCF) Messina, Italy
Intern Researcher (Supervisor: Dr. Onofrio Marago) June 2021 – Aug 2021

- Particle Modelling via MATLAB
Modelling Janus Particles under Optical Potential and Thermophoresis

EnerjiSA Üretim Istanbul, Turkey
Long Term Intern Jan 2021 – June 2021

- Theoretical Model of Flow and Leaks in Plant

TAI-TUSAS Ankara, Turkey
Intern June 2020 – Aug 2020

- Mechanical Design of Helicopter Body via CATIA

PUBLICATIONS

Journal

Optically Driven Janus Micro Engine with Full Orbital Motion Control - ACS Photonics 2023

Manuscript

FViT-Grasp: Grasping Objects With Using Fast Vision Transformers - arXiv:2311.13986

H-MaP: Iterative and Hybrid Sequential Manipulation Planner - Submitted to IROS'24, Under Review

SKILLS & ABILITIES

Computer: Python, SQL, MATLAB, Drake, RAI, OpenFOAM, LAMMPS, CATIA, Solidworks, Solidworks Simulation, Ansys, Comsol, Microsoft Office, C++, SAP, PI, PI ProcessBook, Arduino, GML (Game Maker Language)

Language: Turkish (Native), English (Advanced), Italian (Beginner), Chinese (Beginner, 2nd Language in High School), Spanish (Beginner, 1 Year Education), German (Beginner)

RELEVANT EXPERIENCES

- Learning for Robotics **CS-549 Teaching Assistant**, Bilkent University 2023 Fall
- Fundamental Structures of CS-II **CS-202 Teaching Assistant**, Bilkent University 2024 Spring
- Python **CS-115 Teaching Assistant**, Bilkent University 2022 Fall- 2023 Spring
- Dincer Logistics Hackathon **100,000 TL Reward Winner** with “WareMan: CV based Warehouse Management” Project
- **CS554 Computer Vision Term Project:** Hand Pose Estimation with LTF
- **CS549 Learning for Robotics Term Project:** Grasp Point Detection with F-ViT

- **CS533 Information Retrieval Systems Term Project:** Sentiment Analysis for Stock Prediction
- **CS588 Data Science for Software Engineers Term Project:** Code Smell- Contributor Relation Analysis
- **Graduation Project:** Multi-Directional Power Soccer Chair for Individuals with Disabilities and Online VR Game of Power Chair Soccer via Unity and Photon
- CrossWalker: NY Times Mini Crossword Puzzle Solver - CS461 AI Project Using NLP and Search Algorithms
- FNSS Case Challenge Winner
- British American Tobacco (Turkey) Case Challenge Winner
- Sabancı Holding YNKD Fellow
- ROKETSAN-MES; Exoskeleton Project Member
- Electric Vehicle Project Coordinator
- Bilkent Electric Vehicle Society Dynamic Design Team
- Term Project on “Analyzing the Cavitation of Viscoelastic Lubricants”
- Project Research about “Solar Stirling Engine Thermodynamics Analysis”
- Member of Project Group “Unmanned Land Vehicle” MES Bilkent
- IEEE Arduino Trainings
- Project Research about “Gyroscopes in Systems”

EXTRACURRICULAR ACTIVITIES

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| • Club President, Bilkent University Mechanical Engineering Society | 2019-2020 |
| • Board member, Bilkent University Mechanical Engineering Society | 2018-2019 |
| • Volunteer Work, GSM | 2017 |
| Community service practices in France by agency of GSM (2017), 1 month in France | |
| Community service practices in Estonia by agency of GSM (2013), 3 week in Estonia | |
| • Sales and Marketing Representative, Bilkent Radio | 2017-2018 |
| • Project Coordinator and Board Member, Bilkent Electric Vehicle Society | 2018-Present |
| • Campus Tour Guide, Bilkent Information Center | 2019-Present |

PERSONAL TRAITS

- Always open to learn new subject and develop personal skills
- Experienced several groups and laboratory group as a leader
- Comfortable managing stress in working area
- Experienced about doing presentations to the public as a presenter
- Practical intelligence
- Ability to learn new languages
- Is used to work with people from other cultures
- Driver license (B)

HOBBIES & INTERESTS

- Traveling around the world and discovering different places
- Visited: most countries in Europe and also USA and far East countries (30+ countries)
- Scuba diving
- Winter sports; snowboarding, skiing
- Playing chess

REFERENCES

- Dr. Ozgur Oguz, *Professor at Bilkent University*
ozgur.oguz@bilkent.edu.tr
- Dr. Onofrio Marago, *Director at National Research Center of Italy, Institute for Chemical-Physical Processes*
onofrio.marago@cnr.it
- Dr. Luca Biancofiore, *Professor at University of L'Aquila*
luca@bilkent.edu.tr
- Bora Dere, *Consumer Banking Analytics Division Manager at QNB Finansbank*
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- Kaan Selçuk, *Expert Data Analyst at QNB Finansbank*
kaan.selcuk@qnbfinansbank.com
- Erman Erdal, *Senior Mechanical Maintenance Engineer at EnerjiSA Üretim*
erman.erdal@enerjisauretim.com