Burak Erdilli

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Gender: Male **Date of birth:** 19/09/2000 **Nationality:** Turkish

ABOUT ME

In addition to pursuing my educational goals, I have also been developing my skills in various areas such as Arduino, networking, and e-commerce which I believe will benefit my career. In my free time, I enjoy photography and learning about computer hardware.

WORK EXPERIENCE

[07/2023 – 10/2023]

Software Support Intern

P.I. Works

City: Istanbul
Country: Türkiye

[11/2021 – 09/2022]

Member of Student Research Team(Brain Tractography)

Şahin Hanalioğlu M.D., (Neurosurgery Department, Hacettepe University)

City: İstanbul
Country: Türkiye
-reviewing the literature on brain tractography studies
-processing the Human Connectome Project Data using the DSI Studio
-processing the outputs using numpy, pandas, igraph, nilearn
-working with the team during the interpretation process
-actively taking part in organizational planning

Status: Oral Presentation The study of Interhemispheric Asymmetry in the human brain connectome involves an investigation of the association between the connective pathways and the diffusion tractography through a quantitative analysis of the tracts.
Article: https://burakerdilli.github.io/assets/pdf/USK2022%20Bildiri.pdf

EDUCATION AND TRAINING

[2019 – Current]

Bachelor of Science in Computer Engineering

Yıldız Technical University

City: Istanbul
Country: Türkiye

[2014 – 2019]

Highschool Education

Bahçeşehir Highschool for Science and Technology

City: Istanbul
Country: Türkiye

LANGUAGE SKILLS

Mother tongue(s): Turkish

Other language(s):

English

LISTENING C1 **READING** C2 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

German

LISTENING A2 **READING** B1 **WRITING** A2

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Programming

Python | SQL | Java (Programming Language) | Algorithms & Data Structures | objec t oriented programming | C | HTML&CSS

Creativity/Project Tools

Adobe Photoshop, Lightroom | Microsoft Office | BlackMagic Davinci Resolve | DSI Studio | Autodesk Fusion360 | LaTex | Protheus

Soft Skills

Communication and teamwork | Adaptivity | Flexibility | Problem-Solving (Problem Analysis) | Time Management | Critical and analytical thinking

PROJECTS

[09/2023 – 01/2024] **Detection of Cell Types in Full Slice Ocular Images Using YOLOV8**

-YOLOV8 model trained using image and annotation data across 18 different cell classes

-After testing, the model is entegrated into a mobile application using REACT.

Project repository: https://github.com/BurakErdilli/yolov8

Project Report: https://burakerdilli.github.io/assets/pdf/Turnitin_19011046_17011909.pdf

[10/2022 – 01/2023] **Vehicle Control Using Eye-Gaze Tracking**

The Vehicle Control project involves utilizing "python-dlib" for face and eye detection and OpenCV for image processing to control the direction of the vehicle based on the direction of the user's gaze. The outputs that the vehicle can respond to include: up, down, left, right, blink, double blink, and blink for a specified number of seconds.

Project repository: https://github.com/BurakErdilli/eye_gaze_tracking

Report: https://burakerdilli.github.io/assets/pdf/Eye_Gaze_Tracking.pdf

[10/2022 – 12/2022]

The Embedded System of Raspberry Pi 2 That Translates Human Blink Patterns Into Morse Code Responses

The project involves the development of an embedded system that produces letters written in Morse code by detecting the length of a person's eye blinks in front of a webcam and generating output in the form of lines or dots. The system includes commands for confirming/deleting the letter or word. OpenCv, dlib, and numpy were utilized in the development.

Project repository: https://github.com/BurakErdilli/embedded_blink

Report: https://burakerdilli.github.io/assets/pdf/EmbeddedSystemsProject.pdf

[10/10/2021 – 06/02/2022]

Discord alike messaging application "chatz" | Group Project on System Programming

Messaging application backend including security and other UX features using flask.

Project repository: https://github.com/BurakErdilli/chatz

[2021]

Local Mining Information System | Independent Group Project on System Analysis

A network system with a mobile app that can track all the members' mining hardware information.

Project Report:https://burakerdilli.github.io/assets/pdf/Mining%20Monitoring%20System.pdf

[2017]

Low Cost Water Treatment Using the Plant "Moringa Oleifera" | Chemistry Project Applied to TUBITAK

In the research, Moringa Oleifera (Miracle Tree) plant used as a nutrient

was used as the main element of the seed treatment method. Contains Moringa Oleifera Cationic

Thanks to protein (MOCP), it kills microbiological organisms in the water and other

It has been observed that the particles precipitate to the bottom of the water.

Keywords: Moringa Oleifera, Treatment, Activated Carbon, Ion Exchange Resin, Moringa Oleifera Cationic Protein (MOCP)

[2016] **Renewable Packaging Model | Presented to FIRST Lego League Jury**

Best project award on FIRST Lego Leauge Turkey Championship Finals. Environmental Award from Koroplast Company corporate with Corozo Group. Later on, at Macquarie University the “The First Place Gracious Professionalism Award” in ASIA PACIFIC OPEN CHAMPIONSHIP 2016.

CERTIFICATES AND COURSES

[06/11/2021] **ETS | TOEFL IBT**

Certificate: https://burakerdilli.github.io/assets/pdf/TOEFL_REPORT_2021.pdf

Test Appointment Number: 6676811215154324

Score:97 Reading:25 Listening:26 Speaking:25 Writing:21

[20/10/2021 – 23/12/2021] **Machine Learning | Stanford University**

Certificate: https://coursera.org/share/19f029944e10b37c18e4875e98ec17d6

[03/2019]

WEB DESIGN COURSE | Yıldız Technical University Continuous Application and Research Center

Certificate: https://burakerdilli.github.io/assets/pdf/webdesign.pdf