

OKAN DEMIR BAYKAL

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EDUCATION

Technical University of Delft

BSc Computer Science and Engineering

- 2nd year student in the BSc Computer Science and Engineering program, data track.

Aug 2021 – Present

Delft, Netherlands

Ozel Ege Lisesi

Science and mathematics track

- Took Computer Science A, Calculus AB, and Statistics Advanced Placement courses.

Sep 2017 – Jun 2021

Izmir, Turkey

ACADEMIC & EXTRACURRICULAR ACTIVITIES

Volunteer Laboratory Assistant

Ozel Ege Lisesi Mechatronics Laboratory

- Mentored 6 teams of 10th and 11th Grade students on making of the robotics and software projects:
- Researched and organized supply of all initial lab equipment, maintained said equipment and planned further expansion.

Sep 2019 – Present

Izmir, Turkey

Student Researcher

Koc University Summer Research Program

- Worked under the supervision of Prof. Deniz Yuret in the Koc University Artificial Intelligence Laboratory for 4 weeks on sentiment aware paraphrase generation with deep learning under the Koc University Summer Research Program.

Jun 2019 – Aug 2019

Istanbul, Turkey

PROJECTS

Personal Website

okanbaykal.com

- Built and hosted a static site using HTML and CSS on GitHub.
- Componentized site elements and re-built the site in Vue 2 and developed a theming system.

Aug 2020 – Present

Izmir, Turkey

Assistive Glasses for the Vision Impaired

Software and Robotics Project

- Developed computer vision software for obstacle classification with TensorFlow and distance estimation using birds-eye-view projection supported by external sensors.
- Developed accessibility and setup features such as a voice assistant and setup wizards using gTTS, SpeechRecognition, Java and Android Studio.
- Designed eyeglasses-shaped modular enclosure in 3D using Autodesk Fusion 360.

Sep 2018 – Mar 2020

Izmir, Turkey

ACADEMIC HONORS AND AWARDS

- Chosen to represent Turkey in Regeneron International Science and Engineering Fair (ISEF) 2020 and 2021 with the project "Assistive Glasses for the Vision Impaired" and its continuation research.
- Ranked 1st place in TUBITAK's 50th Ege Regional Science Fair and 2nd place in TUBITAK's 50th National Science Fair in Technology Design category with the project "Assistive Glasses for the Vision Impaired".

COMMUNITY SERVICE

Book Transcriber and File Manager

Ozel Ege Lisesi & TURGOK

- Took part in the book transcription of Bertrand Russell's "The Conquest of Happiness" for TURGOK (Library for Vision Impaired Individuals of Turkey).

Mar 2019 – May 2019

Izmir, Turkey

OTHER

Languages: Turkish (native), English (TOEFL iBT: 108), German (Goethe Institute A1.2)

Programming Languages: Java, Python 3, Julia, x86 Assembly, JavaScript, HTML/CSS

Developer Tools: Git, AWS, GNU/Linux