OKAN DEMIR BAYKAL

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EDUCATION

Technical University of Delft   Aug 2021 – Present
Computer Science and Engineering   *Delft, Netherlands*

Ozel Ege Lisesi   Sep 2017 – Jun 2021
Science and mathematics track   *Izmir, Turkey*
- Took Computer Science A, Calculus AB, and Statistics Advanced Placement courses.

ACADEMIC & EXTRACURRICULAR ACTIVITIES

Volunteer Laboratory Assistant   Sep 2019 – Present
Ozel Ege Lisesi Mechatronics Laboratory   *Izmir, Turkey*
- 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.

Student Researcher   Jun 2019 – Aug 2019
Koc University Summer Research Program   *Istanbul, Turkey*
- 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.

PROJECTS

Personal Website - Ongoing Project   Aug 2020 – Present
okanbaykal.com   *Izmir, Turkey*
- 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.
- Planned back-end architecture for authorized login system and blog posting system.

Assistive Glasses for the Vision Impaired   Sep 2018 – Mar 2020
Software and Robotics Project   *Izmir, Turkey*
- Developed computer vision software for obstacle classification and distance estimation using TensorFlow.
- 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.

ACADEMIC HONORS AND AWARDS

- Chosen to represent Turkey in Regeneron International Science and Engineering Fair (ISEF) 2020 and 2021 with the project "Assitive 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 Transcripter and File Manager   Mar 2019 – May 2019
Ozel Ege Lisesi & TURGOK   *İzmir, Turkey*
- Took part in the book transcription of Bertrand Russell's "The Conquest of Happiness" for TURGOK (Library for Vision Impaired Individuals of Turkey).

OTHER

Languages: Turkish (native), English (TOEFL iBT: 108), German (Goethe Institute A1.2)
Programming Languages: **Java, Julia, Python 3**, x86 Assembly, JavaScript, HTML/CSS
Developer Tools: Git, AWS, GNU/Linux
Other Interests: Guitar, 3D CAD and Printing, Photography and Filmmaking