



## OKAN DEMİR BAYKAL

Date of Birth: June 12<sup>th</sup>, 2003

Address: 119 Sokak, No 26, D2, 35140, Izmir, TURKEY

Mobile Phone: +905384606134 E-mail: [sgokan03@gmail.com](mailto:sgokan03@gmail.com)

### EDUCATION

- 2018-2021** **Özel Ege High School**, Izmir, Turkey  
**June 2021** Expected graduation date with Anatolian High School Diploma in Science and Mathematics Track and the AP Courses of Computer Science A, Calculus AB and BC, Physics I and C, Statistics
- 2017-2018** **Bahçeşehir Science and Technology High School**, Izmir, Turkey with 75% Scholarship  
Standard Turkish curriculum taught in English.

### ACADEMIC HONORS AND AWARDS

- 9<sup>th</sup> Grade - Present** Awarded “Certificate of Academic High Honors” every semester of high school and “Certificate of Honor” every year (for contributing to a school theatre production in 9<sup>th</sup> grade and for ranking 2<sup>nd</sup> place in TÜBİTAK’s (The Scientific and Technological Research Council of Turkey) National High School Research Projects Contest in 10<sup>th</sup> grade).  
Participated in Waterloo Math Contests in Gauss, Fryer, Cayley, CSMC, CIMC tests.
- 11<sup>th</sup> Grade** Participated in Waterloo University’s Canadian Computing Contest - Senior Level.  
Finished Stanford’s CS229: Machine Learning course on Coursera.  
Currently taking Stanford’s CS234: Reinforcement Learning course.
- 10<sup>th</sup> Grade** Ranked 1<sup>st</sup> place in TÜBİTAK’s Izmir Regional High School Research Projects Fair and 2<sup>nd</sup> place in National High School Research Projects Fair with “Assistive Glasses for the Vision Impaired” Project, chosen to represent Turkey in the International Science and Engineering Fair (ISEF) 2020 in Anaheim, MA, USA.  
Accepted to The MacDuffie School in Granby, MA, USA, with a ~60% scholarship.  
Finished MITx’s 6.00.1x Course with a grade of 88% (equivalent to A grade).
- 9<sup>th</sup> Grade** Accepted for BASEP Student Exchange Program by Bahçeşehir International Office with the 30% scholarship of 1-year high school education at a high school in the US.  
Participated in URFODU’s English and Mathematics contests.

### ACADEMIC & EXTRACURRICULAR ACTIVITIES

- 11<sup>th</sup> Grade** **Volunteer Assistant at Mechatronics Laboratory of Özel Ege High School**  
Advising 10<sup>th</sup> grade students in creating and developing robotics and software projects of the following: “Smart Fridge with Computer Vision Abilities”, “Development of an Assistive Device with Emotion Recognition Capabilities for Patients with Autism Spectrum Disorder”, and “Radiation Sensitive Unmanned Land Vehicle Platform Design for Finding and Securing Nuclear Waste”.
- Summer of 10<sup>th</sup> Grade** **Koç University High School Summer Research Program**  
Worked under the supervision of Deniz Yüret in the Koç University AI Lab for 4 weeks on paraphrase generation with deep learning.
- 10<sup>th</sup> Grade** **Team Leader of “Assistive Glasses for the Vision Impaired” Project**  
Developed a computer vision-based obstacle avoidance and distance estimation software that outputs haptic feedback, with accessibility features in works such as a voice assistant and easy pairing of haptic feedback bracelets. Designed modular enclosure shaped as eyeglasses for its open-sourced hardware.
- 9<sup>th</sup> Grade** Introductory Arduino Programming course at Maker Hane for one week.  
Member of Bahçeşehir Science and Technology Highschool’s FIRST Lego League Team.

### **COMMUNITY SERVICE**

**10<sup>th</sup> Grade**                      **Book transcription for the Library for Vision Impaired Individuals of Turkey (TÜRGÖK)**  
Took part in the transcription of Bertrand Russell's "The Conquest of Happiness".

### **LANGUAGE AND COMPUTER SKILLS**

**Languages:**                      Turkish (native), English (TOEFL: 107), German (Goethe Institute A1.2)  
**Programming Languages:**    Python 3 (TensorFlow, Keras, PyTorch, Pandas), Java, Julia, C++, HTML, CSS  
**Other Skills:**                      Linux, Git, 3D CAD in Autodesk Fusion 360, PCB Design in KiCad, LaTeX

### **FURTHER INTERESTS**

**Guitar**                              8<sup>th</sup> Grade – Present  
**3D Design**                        4<sup>th</sup> Grade – Present  
**Electrical Engineering**        9<sup>th</sup> Grade – Present