



## Contact

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Ankara, Türkiye

## Projects

Cat Adventure - Java Based 2D  
Platformer Game

<https://github.com/zeynepakcil/CS102-Project-CatAdventure>

FPGA Based Temperature and  
Motion Detection using ADC

<https://youtu.be/L0eVtXn3cmY>

TRC-II (transmitter-receiver)

27 MHz, soldered and assembled on PCB.

Oscillator

18 V DC supply, outputs 15 V (Vpp)  
sinusoidal signal. PCB is designed  
& assembled. <https://youtu.be/CSejtMBAnrc>

## Skills

- Python
- Deep Learning, NN, Transformers
- Edge AI, on-chip AI Deployment
- Computer Vision
- Hardware Acceleration
- Hardware-Software Co-Optimization
- Computer Architecture
- FPGA, VHDL&Verilog

## Achievements

University Entrance Exam of Turkey  
(06/2021)

- Ranked 71st in social science and 477th in the math-science across all exam takers. Awarded with fully funded scholarship (comprehensive) at Bilkent University.

Also awarded with scholarship given to  
best 100 students in exam by state (CoHE).

## Languages

Turkish ● ● ● ● ●  
English ● ● ● ● ●  
German ● ●

# Zeynep Akcil

Junior Electrical Electronics Engineering Student

Enthusiastic student who has interest in hardware acceleration for AI  
deployment and hardware-software efficient networks.

## Education

Bilkent University

3.41 GPA

Electrical Electronics Engineering - Full Scholarship  
September 2021 - Present

Related Courses Taken:

- **MATH 101 & 102, PHYS 101 & 102**
- **MATH 241&242 Engineering Mathematics**
- **MATH255, MATH260: Probability and Statistics, Intro. to Statistics**
- **EE 102 Digital Electronics, EE 211 Analog Electronics**
- **EE 202 Circuit Theory, EE 313 Electronic Circuit Design**
- **EE 212 Embedded Systems and Computer Architecture**
- **EE 321 Signals and Systems**
- **EE 342 Feedback Systems**
- **EE 351 Engineering Electromagnetics**
- **EE 431 Digital Communications**
- **EE 443 Neural Networks**
- **CS 115 Introduction to Programming in Python**
- **CS 101 & 102 Algorithms and Programming I & II:** Java based programming.
- **CS 281 Computers and Data Organization:** SQL based database systems.
- **CS 464 Introduction to Machine Learning**

Huseyin Avni Sozen Anatolian Highschool

Istanbul, Türkiye

September 2017 - June 2021

## Experiences

ETH Zurich Integrated Systems Laboratory - Intern  
Digital Circuits and Systems Group

June 2024 - October 2024

- Comparing CNN and ViT, compatible with hardware deployment on RISC-V based chips, model performances, trained with a multimodal dataset, on small models by classifying skin diseases with image inputs
  - Supervisors: Prof. [Luca Benini](#) and [Viviane Potocnik](#)

Alkan Lab Bioinformatics & Computational  
Genomics - Volunteering Student

October 2024 - Present

- [Working on EU Project, BioPIM](#) (Processing-in-memory architectures and programming libraries for bioinformatics algorithms)
- Benchmarking for efficient AI deployment on different architectures, collaboration with [UPMEM](#)
  - Supervisors: [Assc. Prof. Can Alkan](#) and [Berkan Sahin](#)

## Projects

Deep Learning Based Thermal Image Super Resolution

October 2024- June 2025

- Enhancing resolution of low-resolution thermal images using novel DL model and dataset in collaboration with a company, TUBITAK (Scientific and Technological Research Council of Türkiye)
  - Academic supervisor: [Tolga Cukur](#)
  - Company mentors: Emrah Oduncu, Huseyin Yalcin