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Projects

Cat Adventure - Java Based 2D Platformer Game

FPGA Based Temperature and Motion Detection using ADC

TRC-11 (transmitter-receiver)
27 MHz, soldered and assembled on PCB.
Oscillator
18 V DC supply, outputs 15 V (Vpp) sinusoidal signal. PCB design is made on Diptrace and assembled by soldering.

Achievements

University Entrance Exam of Turkey
Ranked 71st in 3 million 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).

Skills

- Python, Java, Deep Learning, Edge AI
- Hardware Acceleration
- Hardware-Software Co-Optimization
- VHDL, Verilog
- VLSI, ASIC Design

Languages

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

Zeynep Akcil

Senior Electrical and Computer Engineering Student

Enthusiastic student who has interest in VLSI&hardware design, hardware acceleration and chip design for AI.

Education

- Bilkent University** 3.57 CGPA
Electrical Electronics Engineering - Full (Comprehensive) Scholarship
September 2021 - Present
Related Courses Taken:
 - Calculus, Linear Algebra, Probability and Statistics
 - Analog Electronics, Circuit Theory, Electronic Circuit Design
 - Digital Electronics, Embedded Systems and Computer Architecture
 - Signals and Systems, Feedback Systems, Electromagnetics, Digital Communications
 - Introduction to Programming in Python, Algorithms&Programming with Java
 - Database Systems&SQL, Introduction to Machine Learning, Neural Networks
- Huseyin Avni Sozen Anatolian Highschool** 99/100
Istanbul, Türkiye
September 2017 - June 2021

Experiences

- ETH Zurich Integrated Systems Laboratory**
Undergraduate Researcher and Intern
Digital Circuits and Systems Group
June 2024 - October 2024
Comparing multimodal Convolutional Neural Networks and Vision Transformers depending on the accuracy and memory consumption, RISC-V deployment
Supervisors: Prof. Luca Benini and Viviane Potocnik
- Alkan Lab Bioinformatics & Computational Genomics**
Volunteering Student
October 2024 - Present
 - POACA: Partial Order Alignment Computational Acceleration:**
Hardware-Software Co-optimization in bit-parallel sequence-to-graph alignment, ASIC design for hardware optimization
 - EU Project, BioPIM:** Processing-in-memory architectures and programming libraries for bioinformatics algorithms
 - Benchmarking for efficient AI deployment on different architectures, collaboration with UPMEMSupervisors: Assc. Prof. Can Alkan, Berkan Sahin and Zulal Bingol

Projects

- Deep Learning Based Thermal Image Super Resolution**
October 2024- June 2025
Super-resolution task for low-resolution thermal images from different resolutions. Development of novel deep learning model and dataset.
Completed in collaboration with TUBITAK
Academic supervisor: Tolga Cukur
Company mentors: Emrah Oduncu, Huseyin Yalcin

Extracurricular Activities

- EFCL Summer School**
June 3-7 2024, Zurich, Switzerland
Open Source IC Design and Computer Architectures
Track 3-Embedded AI for Biosignal Processing
36 hours of lectures and hands-on sessions.