Cankut Bora Tuncer

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EDUCATION

2020 **Bilkent University, Faculty of Engineering, Ankara, Turkey**

B.S. in Electrical and Electronics Engineering (High Honor with merit scholarship); CGPA 3.55/4.00 (4th Year)

Projects:

Development of a Lidar-Based Method for Indoor Navigation of UAVs (graduation project)
Dynamic Tilted Maze Solving with Robotic Arms: An RL-DQN Approach, CS449 Learning for Robotics
Wi-Fi Camera Controlled Tank with a Robotic Arm, EEE212 Microprocessors course (Best Project Award)
Emotion Classification Algorithm and Its Implementation on FPGA via VHDL, EEE102 Digital Circuit Design
Developing an e-commerce app with full functionality called “Alicisindan” using Android Studio and Java
Design of an AM Transmitter Receiver Circuit, EEE211 Analog Electronics course
Design of a Demodulator circuit using sample and hold circuit, EEE313 Electronic Circuit Design

EXPERIENCE

Oct 2023 **Bilkent LiRA (Learning for Intelligent Robotic Agents) Lab, Undergraduate Researcher, Ankara**

- Working under Asst. Prof. Özgür Öğüz.
- Working on differentiable physics and stable modes for tool-use and manipulation planning.
- Using tools such as ROS, Gazebo and Rai (Robotic tool box developed by Prof. Marc Toussant from TU Berlin.)

Aug 2022 **Bilkent Miniature Robotics Laboratory, Undergraduate Researcher, Ankara**

- Working under Asst. Prof. Onur Özcan
- Worked on miniature impact resilient drones and researched autonomous drone navigation algorithms.
- Work on the estimation of the position and orientation of the drone using optic flow, LIDAR, and IMU sensors.
- Worked on ESP based microcontrollers.
- Developed an API to increase the communication rate by x50 between two microcontrollers communicating over Wi-Fi.
- Developed drivers for the optical flow sensor PMW3901 (I2C).

Jul-Aug 2023 **Plan-S Space Technologies Inc., Embedded Linux / Linux Intern, Ankara**

- Worked with various SoC based on ZYNQ 7000 and Ultrascale+ series devices.
- Researched DFU (Device Firmware Upgrade) protocol and implemented on SoC devices.
- Used tools like Petalinux, Enclustra Build Environment for bootable image generation.
- Got experience in Linux environments.

Jul-Aug 2023 **ASELSAN, Machine Learning Intern, Ankara**

- Worked under REHIS directorate, Radar System Engineering Department, RVI group.
- Researched radar systems and equations.
- Work on the binary and multi classification of the radar data consisting of track IDs.
- Experimented with various models such as Boosted/Bagged Trees, generic neural networks and LSTMs

Jun-Jul 2022 **Savronik, Embedded Software Intern, Eskisehir**

- Developed a desktop application and GUI using C# to communicate with the programmable power supply HMP4040 over RS232.
- Developed driver APIs (GPIO, I2C, SPI, UART) for STM based microcontroller using C.
- Researched GPS systems and wrote documentation for the NESEO-GNSS1A1 board.

- Gained know-how about ISO and MLT-STD standards.

Sep-Jan 2022 Bilkent University, Education, Tutor, Ankara

- Tutoring the EEE212 Microprocessors course after getting A+ the previous semester.

SKILLS AND ABILITIES

Computer

Programming:	Python, C/ C++, Java, MATLAB, VHDL, Assembly 8051
Software:	Linux, Gazebo/ROS, Android Studio, LT Spice, EasyEDA, AutoCAD Fusion 360
Other:	MS Office Applications

Personal

Personal Traits:	Quick learner, target-oriented, team player, self-disciplined
Languages:	Turkish (native), English (IELTS 7.5), German (basic)

EXTRA-CURRICULAR ACTIVITIES

Student Clubs

- Bilkent Young Entrepreneur Society, volunteer
- Bilkent IEEE Student Club, member, 2020 (Winner of the Engineer Of the Month Contest)
- Bilkent TDP (Social Awareness Project), volunteer, 2020

Hobbies & Interests

- Bodybuilding, Playing the piano, playing volleyball, 3D printing, electronics, singing