

# Yiğit Korkmaz

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## SUMMARY

One can best describe me as a consistent and curious learner. I keep an open mind for future career directions, yet my current interests lie in the beautiful science behind robotics and relevant subfields in the electrical and mechanical engineering.

## RELEVANT SKILLS

- |   |                                  |
|---|----------------------------------|
| • C / C++                                 | • Leadership (Lead design teams) |
| • Arduino (libraries and hardware design) | • Embedded Software              |
| • Robotics                                | • OpenCV                         |
| • MATLAB                                  | • ROS                            |
| • Circuit designing & building            | • Linux OS & Bash Scripting      |
| • PSPICE                                  | • Computer Network Systems       |

## EDUCATION

### BOGAZICI UNIVERSITY

Sep. 2016 – Present

*Bachelor of Applied Science and Engineering in Electrical and Electronics Engineering*

- **GPA: 3.71/4.0 (High Honor Standing for all the semesters enrolled)**
- Minor with Mechanical Engineering (GPA: 3.71/4.0)

### BAHÇEŞEHİR HIGH SCHOOL FOR SCIENCE AND TECHNOLOGY

Sep. 2011 – Jun. 2016

- National SBS Exam 9th Place over 1 million participants.
- Enrolled with merit based full scholarship.
- While in high school, participated in and passed freshman-year college classes such as Genetics, Thermodynamics, Advanced Mechanics, Technical Design, Web Programming, instructed by professors from Bahçeşehir University.

## EXPERIENCE & PROJECTS

### INTERNSHIP AT PUBINNO

Jul. 2019-Sep. 2019

*Hardware & Embedded Software Departments*

- Worked as intern at Pubinno, which is a company that provides high-technology Internet of Things solutions in order to increase efficiency and quality while reducing wastes in food and drink industry, primarily in beverage sectors.
- During this period, was a member of both hardware and embedded software teams. Worked mainly in research and development area.
- Designed and implemented different prototypes using different boards such as Arduino & Raspberry Pi.
- Added new features to product by using Cypress Microprocessor. Designed and built different test devices in order to test workability of different sensor of product such as thermistor and flowmeter.

### INTERNSHIP AT KRON TELECOM

Jul. 2018-Aug. 2018

*Product Management & SecOps Departments*

- Worked as intern at Kron Telecom, which is a company that provides high-technology solutions such as privileged access management for the operational productivity and security needs of corporate organizations, primarily in telecommunications sectors.
- During internship period, mainly worked with product management and SecOps departments, conducted performance tests, checked for security breaches and fixed product bugs.
- Focused on computer network systems, created virtual labs in order to apply performance tests.
- Almost all of performance tests were conducted manually, wrote SQL queries and Bash scripts to automate those tests.

## **EFFECT OF DIFFERENT PARAMETERS TO REPRODUCTION RATE OF PROKARYOTES**

*Founder of the idea, designer and builder*

Jan.2014 –May 2014

- Conducted research on the effects of different wavelengths of light, different frequencies of sound and electrical field of varying strength on the reproduction rate of some prokaryotic organisms such as Escherichia coli and Staphylococcus aureus.
- Supervised by Prof. Dr. Muzeyyen TORUN, Head of Medicine Department at Bahçeşehir University
- As a result, products that reduce reproduction rate of harmful prokaryotes are grown in a laboratory environment.

## **BAHÇEŞEHİR SCI-TECH ROBOTICS TEAM**

Sep. 2012 –Feb. 2017

*Co-Captain and Head of Mechanics and Mentor*

- As a team member, attended several robotic competitions such as FLL (FIRST Lego League) and FRC (FIRST Robotics Competition), represented Turkey in international championships, won several awards such as **Best Mechanics Award, Team Spirit Award, Runner-Up Award**.
- During mentorship, assisted members of **FRC Team 3646 - Integra** to build robots using **CAD and Roborio (both hardware and programming with Java libraries)**, and provided them with **hands-on experience in soldering and circuit building** as well as **creating 3-D animation with Autodesk Maya**.

## **FIKRET YUKSEL FOUNDATION / FIRST ROBOTICS COMPETITION**

May 2015 –Present

- Voluntarily working with Fikret Yuksel Foundation, a foundation whose main objective is making people more familiar with STEM.
- Organizing off-season and official FIRST robotics competitions for high school students since 2015 in Ulker Sports Arena.
- During competitions, working as Lead Robot Inspector, which requires a certificate to ensure knowledge about **mechanics, pneumatic systems, electrical circuits, sensors and programming**.
- Details about foundation and FRC can be found at: <https://www.firstinspires.org/> , <https://www.fikretyukselfoundation.org/>

## **STUDENT ASSISTANT**

Sep. 2019 – Jun. 2020

- Selected as student assistant for Electric Electronics Engineering department for the past 2 semesters.
- Assisted students in their laboratory studies and held Problem Solving sessions.
- Been an Assistant for EE101 – Orientation to Electrical Engineering and EE352 – System Dynamics and Control.

## **INTELLIGENT SYSTEMS LABORATORY**

Sep. 2019 - Present

- Voluntarily working at Intelligent Systems Laboratory, which is a robotics laboratory located in Bogazici University.
- Primarily working on RGBD segmentation, object detection and creation of object categories by using a robot with a pan tilt camera system attached to it; and localization, path planning in mobile robots, implantation of artificial potential fields.
- Both segmentation and learning algorithms are implemented using **ROS (Robot Operating System), OpenCV and PCL**.

## **EXTRACURRICULAR ACTIVITIES**

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### **SCIENCE TRUCK AND SCIENCE MUSEUMS**

Sep. 2012-Apr. 2014

- Took part in building a mobile science museum that traveled 20.000 miles across Turkey.
- Introduced projects and scientific concepts to attending adults and children all over the country.
- Aimed to make people more familiar with STEM.

### **BILIM KAHRAMANLARI & FIRST LEGO LEAGUE**

Jan. 2015-Present

- Working as a volunteer in Bilim Kahramanları and FLL tournaments in Turkey.
- During various other events, working as volunteer coordinator trainee.

### **CMAS 3-STAR SCUBA DIVER**

- Passed required theoretical and practical courses, currently holding CMAS 3 Star Diver License