

# Kaan Keskin

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## EXPERIENCE

### **Arçelik A.Ş. , Istanbul,TR — Project Member**

OCTOBER 2017 - CURRENT

Project Member at Arçelik A.Ş. Atölye 4.0 Advanced Robotics Lab. Currently working on ROS (Robot Operating System) and the navigation stack on a custom AGV (Automated Guided Vehicle).

### **Arçelik A.Ş. , Istanbul,TR — Intern**

JULY 2017 - AUGUST 2017

Created 2D map of the place I worked using a depth-sensing camera and ran shortest path algorithms on that map. Developed location-aware video player using buetooth beacons on an Android device.

### **Yeditepe University, Istanbul,TR — Student Assistant**

APRIL 2016 - JUNE 2016

Helping students in computer labs and solving problems of computers.

### **Texas Roadhouse, Gatlinburg,TN — Dish Machine Operator**

JULY 2014 - AUGUST 2014

Worked as Work and Travel (WAT) international student.

Had lots of friends from USA besides other countries including Serbia, Russia, China.

Operated the dish machine.

Supervised proper rinse and wash temperatures.

Stored and used dish chemicals properly.

Set up and organized the dish racks.

Exhibited teamwork.

### **Maydanoz Aquarium, Istanbul,TR — Seller**

FEBRUARY 2012 - APRIL 2012

Worked after school.

Developed marketing skills.

## SKILLS

AWK

BASH

C/C++

C#

CSS

Go

HTML

Java

Javascript

LaTeX

MATLAB

MongoDB

Node.js

Office Programs

Photoshop

PHP

Processing

Python

React.js

Ruby

SQL

Visual Basic

## LANGUAGES

Turkish - Native

English - Advanced

German - Intermediate (B1)

## EDUCATION

### **Yeditepe University, Istanbul,TR** **Bachelor of Computer Engineering**

SEPTEMBER 2013 - JUNE 2018

### **Kartal Anatolian High School, Istanbul,TR** **High School Diploma**

SEPTEMBER 2009 - MAY 2013

## PROJECTS

### **Autonomous WLAN Fingerprint Radio Map Creator Robot** **CSE 492 – Engineering Project (on progress...)**

The literature indicates that there are couple of methods that can be used to estimate location via RSSI signal strength. Namely these are; triangulation, trilateration and fingerprinting. From the above, the latter one produces that best localization precision. However, fingerprinting has its own handicap, which entails the creation of the signal map of the environment. This is a cumbersome process and depending to the size of the indoor signal map creation can take from couple hours to couple of days to conclude. Furthermore, since most indoor-environments are dynamic, every and each time there is a small change in the surrounding are, the process needs to be repeated. Hence, this project proposes the development of an autonomous robot, which has a depth-sensing camera sensor and encoders on its wheels. Accordingly, the position of a robot can be tracked on a map using a SLAM (Simultaneous Localization and Mapping) system and the specific location signal data can be collected to create a WLAN fingerprint radio map. Lastly, the created fingerprint map will be used to identify user's location as a proof of concept and the results will be presented accordingly.

### **BİLMÖK 2018 Website**

BİLMÖK (Bilgisayar Mühendisliği Öğrencileri Kongresi - Computer Engineering Students Congress) is the greatest student congress in Turkey. The website (<https://bilmok.org.tr>) is built and maintained by me and hosted on a GNU/Linux VPS. Registrations, universities and messages are kept in a MYSQL database. Registrations and universities are related so that participants could be queried according to their cities and/or universities. There were nearly 2200 registrations on the database.

### **AR Based Public Media — OBSS Hackathon 2018 3. Place** **(3 People Team Project)**

We used AR, IOT and Mobile technologies in this project. It is a public media that people can post media on Bluetooth Beacons. I was responsible for the backend. Node.js runtime and Express.js framework is used for the Rest API. Data kept on MongoDB and Mongoose is used as ORM.

*There are lots of more projects which makes this CV longer.*

*You can see them on <https://kaankeskin.me>*

## HOBBIES

Music

Theatre

Skiing

Watching Films & TV Series

Traveling

## COMMUNITIES

Kartal Anatolian High School  
Alumni Association

Yeditepe University Computer  
Society

Yeditepe University Music  
Club

Yeditepe Rhythm Factory

Yeditepe University Music  
Club Choir

Yeditepe University Theatre  
Club

Yeditepe University Cinema  
Club

Interrail Turkiye