# Onur Berk Töre

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### Education

- 2019 M.Sc. in Computer Engineering, Koç University.

  Autonomous, Learning and Interactive Agents Research Laboratory
- 2014-2019 **B.Sc. in Computer Engineering**, Yeditepe University, 3.35/4.0. Robotics and Intelligent Systems Laboratory

# Research & Development Experience

- 2019 Researcher, ALIVE Laboratory, Koç University.
- 2018 Undergraduate Researcher, Robotics & Mechatronics Laboratory, Koç University.
  - Worked on the electrovibration effect on a haptic touch screen interface and investigated the geometric transformations of the finger print under this effect.
  - Showed the change in the shear strain values of fingerprint under the electrovibration effect.
- 2017 **Software Developer**, Yeditepe University.

Erasmus+ KA203 Strategic Partnership Project

Title: Timeline Travel, An Alternative Tool for Architectural History Learning and Teaching More Info: timelinetravelproject.gantep.edu.tr

- Core developer of the team, worked together with a Ph.D. student to build TTravel tool, an interactive 2D dynamic map creation plugin designed for web.
- 2016 Undergraduate Researcher, Robotics & Intelligent Systems Lab., Yeditepe University.
  - Modify 2D physics engine.
  - Implemented potential field and wavefront path finding algorithms in C++.
  - $\circ\,$  Applied haptic rendering for rigid body simulation on Geomagic Touch devices.
  - Performed teleoperation for haptic devices via connection over the network.

# Teaching Experience

- 2018-2020 **Teaching Assistant**, Koç University.
  - $\circ\,$  Introduction to Artificial Intelligence, (COMP341)
  - o Online Data Science Certificate Program
- 2016-2017 Undergradute Lab Assistant, Yeditepe University.
  - Data Structures (CSE 211), C++
  - o Fundamentals of Computer Programming (CSE 114), C

# Undergraduate Projects

### Summer Project.

- Markerless gesture control of a mobile robot, C++, ROS, Ubuntu, Leap Motion SDK.
- Real time person tracking and following, OpenCV, KFC algorithm.
- Line follower mobile robot via IR and buffer sensors.

#### Course Projects.

- Operating Systems Design: Modification to Linux 2.4 kernel scheduler and performance analysis of the new scheduler, C.
- Introduction to Artificial Intelligence: Implementation of minimax algorithm with alpha beta pruning to checkers-like game, C++.
- Computer Security: Implementation of authentication, confidentiality and compression services to file transfer application, Java.
- Data Communications and Computer Networks: Transport layer anonymization of video broadcast application, Java, C.
- Programming Languages: JSON to XML converter, Lex, Yacc, C.
- Data Structures: Huffman algorithm for txt files, C++.
- Systems Programming: M6800 Assembly interpreter, C.
- Software Testing: Applied Code Inspection, Desing by Contract analysis, Code-coverage tests, Equivalence tests and Unit tests on a Java class.

## Languages

• Turkish: Native

• English: C1 CEFR (TOEFL: 103/120, IELTS: 7.5/9.0)

# **Technologies**

- Languages: C++, C, Java, Python, MySQL, Matlab, Javascript, PHP
- Software: ROS, Gazebo, Weka, OpenCV, OpenHaptics, OpenInventor, Visjs, Leaflet, LeapMotion SDK, SUMO, Boost, Bootstrap