

Onur Berk Tore

Yeditepe University
Istanbul

onurberk.tore@std.yeditepe.edu.tr
github.com/onurtore

EXPERIENCE

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| Summer Undergraduate Research Assistant | Koç University Robotics And Mechatronics Laboratory | 2018 |
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Project Focus: Using image processing and matrix decomposition techniques to investigate the electrovibration effect. (Matlab, OpenCV, C++)

- Worked on the electrovibration effect on a haptic touchscreen interface and investigated the geometric transformations of the fingerprint under this effect.
 - Showed the change in the shear strain values of fingerprint under the electrovibration effect.
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| Undergraduate Assistant | Yeditepe University Department of Computer Engineering | 2018 |
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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. (JavaScript, PHP)
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| Undergraduate Research Assistant (Volunteer) | Yeditepe University Department of Computer Engineering | 2016-2017 |
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Project Focus: Using path finding and physic simulation to improve human-robot collaboration.

- Modify 2D physics engine.
 - Implemented potential field and wavefront path finding algorithms in C++.
 - Applied haptic rendering for rigid body simulation on Geomagic Touch devices.
 - Performed teleoperation for haptic devices via connection over the network.
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| Student Lab Assistant | Yeditepe University Department of Computer Engineering | 2016-2017 |
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Assisted undergraduate students during their lab sessions.

- Data Structures (CSE 211), C++
- Fundamentals of Computer Programming (CSE 114), C

EDUCATION

B.Sc. in Computer Engineering

Yeditepe University,
Istanbul Turkey

Fourth Year

- Success Scholarship (covering 50% of tuition fees), CGPA: 3.33/4.00

PROJECTS

Summer Study

- 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.

CORE SKILL SET

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

LANGUAGES

- Turkish: Native Language
- English: C1 CEFR (TOEFL: 103/120, IELTS: 7.5/9.0)

ADDITIONAL EXPERIENCE

- Member of the Yeditepe University Robotics and Intelligence System Labarotory, 2016-2017
- Board member of University Debate Society, 2015-2016
- Library Assistant at Yeditepe University, 2015-2016

REFERENCES

Dr.Ayşe Küçükyılmaz

Lecturer(Assistant Professor),University of Lincoln

Email: akucukyilmaz@lincoln.ac.uk