Ayberk Sadic

Institute of Science Tokyo, PhD Candidate
Mechanical Engineer & Robotics Specialist
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Location: Tokyo, Japan
Date of Birth: 11/11/1992

Education

PhD Candidate| ***Mechanical Engineering*** — Apr. 2022 – Now
Institute of Science Tokyo, Mechanical Systems Design Laboratory — Tokyo, Japan

Master of Business Administration ***GPA: 3.88*** — Sep. 2019 – Mar. 2023
Galatasaray University, Expected Graduation: Feb. 2023 — Istanbul, Turkey

Research Exchange Student | ***Suzumori-Endo Laboratory*** — Sep. 2014 – Aug. 2015
Institute of Science Tokyo (Previously called: Tokyo Institute of Technology) — Tokyo, Japan

Bachelor of Science | ***Mechanical Engineering GPA: 3.15*** — Aug. 2010 – Jun. 2016
Middle East Technical University — Ankara, Turkey

Work Experience

Founder & Systems Architect — Jan. 2018 – Feb. 2024
Mekadermis LLC. — Istanbul, Turkey

- Development of Novel Haptics Platform MIDAS Touch for Digital Touch Sensation on PCs and Mobiles
- Haptics, Robotics, Electronics and Software Design Consultancy to Industrial Clients
- Business Controlling, Assessing P&L and Corporate Performance, Identifying Business Drivers
- Rapid Prototyping and Supervision of Design Iterations with SCRUM and Kanban
- Facilitating Communications with Customer Company CEOs/Executives and Investment Fund Managers
- Financial Planning of Long-Term and Short-Term Corporate Budgets
- Periodic Presentations of Corporate Financial Statements and Projections to Investors and Other Parties

Research & Teaching Assistant — Aug. 2016 – Jan. 2018
Koç University - Robotics & Mechatronics Laboratory — Istanbul, Turkey

- Conducted Research on Haptic Perception of 2D Shapes on Touch Screens for Blind
- Lectured in Control Systems Design and Bachelor's Thesis Courses

Projects and Research

Effects of Financial Anxiety and Financial Literacy on Mental Accounting Processes — 2021-2023
Master's Thesis - Galatasaray University

Development and Testing of Piezo Electric Tactile Feedback Cells — 2019-2021
Mekadermis - Corporate Project

MIDAS Haptic Feedback Platform — 2018-2019
Scientific and Technological Research Council of Turkey

Conferences and Presentations

Exploration strategies for tactile graphics displayed by electrovibration on a touchscreen
Sadia, B., Sadic, A., Ayyildiz, M., & Basdogan, C. (2012) International Journal of Human-Computer Studies, 160, 102760.

Haptic Perception of 2D Equilateral Geometric Shapes via Electrovibration on Touch Screen
Sadic, A., Ayyildiz, M., & Basdogan, C. (2017) 21st National Biomedical Engineering Meeting (BIYOMUT), i–iv.

Development of a Human Trunk Exoskeleton with Pneumatic Artificial Muscles
Sadic, A., Ohno, A., & Suzumori, K (2015) JSME ROBOMEC 1A1-P01

Skills

Languages: English (TOEFL IBT: 109/120 - TOEIC L/R: 980/990), Japanese (Conversational), Turkish (Native)
Programming: Python, MATLAB, C/C++, SQL
Platforms: Git, Linux (Ubuntu, Kali), ROS, OpenCV, Windows, Raspberry Pi, Arduino, STM, ARM, XBee
Software: Autodesk Inventor, Fusion360, Solidworks, EAGLE, Anybody Modelling System, Optitrack Motive
Tech Skills: Biomechanics, Motion Capture, Haptics, 3D Printing, Statistics, Mechanical Design, PCB Design