

Suhan Arda Öner

COMPUTER ENGINEERING & MECHATRONICS ENGINEERING STUDENT

Istanbul, Turkey

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“Dedicated to continuous learning and the development of impactful, data-driven solutions through robotics and engineering.”

Summary

Innovative Dual-Degree candidate specialized in bridging software architecture with hardware systems. Proven track record in developing high-fidelity Haptic Feedback systems and optimizing Human-Machine Interaction (HMI) protocols. Proficient in Object-Oriented Programming (Java, C++, C#) and real-time simulation engines (Unity). Committed to delivering scalable, data-driven solutions and reducing system latency in complex robotic environments.

Education

Kadir Has University

B.SC. IN COMPUTER ENGINEERING

Istanbul, Turkey

01/2022 – Present

Kadir Has University

B.SC. IN MECHATRONICS ENGINEERING (DUAL DEGREE)

Istanbul, Turkey

2025 – Present

Experience

Kadir Has University

INTERN (TÜBİTAK 2247-C)

Istanbul, Turkey

02/2025 – Present

- Engineered control algorithms for Human-Machine Interaction Devices used in robotic rehabilitation.
- Optimized sensory feedback loops using Unity and C#, enhancing system responsiveness for real-time scenarios.

Kadir Has University

TEACHING ASSISTANT - HIGH ENGINEERING, ROBOTICS, CS

Istanbul, Turkey

2025

- Mentored a cohort of 40+ students, facilitating hands-on development in robotics and engineering projects.
- Collaborated with instructors to refine curriculum, resulting in improved student engagement and project completion rates.

Kadir Has University

TEACHING ASSISTANT - INTRODUCTION TO COMPUTER ENGINEERING

Istanbul, Turkey

2024

- Conducted code reviews and graded weekly assignments for 50+ students, ensuring adherence to clean coding standards.
- Led practical lab sessions on foundational algorithms and data structures, providing real-time debugging support.

BBR Agency

WEB DESIGNER

Kayseri, Turkey

2023 – 2024

- Designed and deployed 5+ responsive client websites, ensuring cross-platform compatibility and mobile optimization.
- Revamped UI/UX workflows to meet strict client specifications, reducing page load times by approx. 20%.

Projects

- AI Dance Feedback:** Developed a real-time pose analysis engine using Python, Flask, and Gemini API for interactive coaching.
- Haptic SenseGlove Controller:** Engineered a C#/Unity controller for complex manipulation with sub-10ms feedback latency.
- Digital Memory Architecture:** Designed and simulated a RAM & Decoder unit using MATLAB, Simulink, and Verilog.
- Role-Based Contact Manager:** Built a Java enterprise tool with advanced OOP, managing 500+ secure data entries.
- Greengrocer Inventory:** Developed a Java retail system with dynamic stock tracking, optimized for high transactional loads.
- Next.js Portfolio Engine:** Architected a high-performance site using TypeScript and Framer Motion, optimized for 60fps animations.
- Performance Optimization:** Refactored Unity assets and C# algorithms, achieving a 20 FPS increase in robotic simulations.
- Interactive Java Suite:** Designed terminal apps focused on algorithmic efficiency, strict type safety, and data manipulation.
- Metaverse Interaction Module:** Led a team of 4 engineers to develop scalable HMI protocols for VR immersion projects.
- GitHub City:** Built a web-based integrated development environment focusing on GitHub API integration and cloud workflows.

Skills

Languages Turkish (Native), English (Advanced), German (Elementary)

Coding C, C++, C#, Unity, Java, Kotlin, Python, LaTeX, Matlab/Simulink, React, JavaScript, TypeScript

Expertise Robotics, Big Data, HMI, Data Automation, Project Management

Certifications

Global Google Foundations of Cybersecurity (Coursera), Google Play It Safe: Manage Security Risks (Coursera), CodeTheFuture (GEN) Digital Transformation (GEN)

Academic High Engineering & Robotics, Intelligent Data, Metaverse & Big Data

Mathematics: Principles & Solutions, Intro to Computer Eng., Electrical-Electronics Eng.

References

Mine Saraç Stroppa Head of Mechatronics Eng., Kadir Has University ✉ mine.sarac@khas.edu.tr