

# Murathan Abdullaev

19.01.2006, born in Istanbul, Turkey  
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## EDUCATION

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*2025 – 2029*      **HKU BSc (I&T)** Expected graduation in 2029  
*2020 – 2025*      **Irmak High School**

## PROFILE

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I have a passion for engineering and entrepreneurship that drives my endeavors. From starting as a junior designer to founding my own Robotics team, I thrive on problem-solving and innovation. I have designed many products to solve our problems and gained practical experience through internships. My relentless curiosity and commitment to reshaping technological landscapes define my journey. I aim to make a significant impact and drive change in the world of innovation.

## EXTRACURRICULAR ACTIVITIES

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- 2023 - Present*      **Bolts & Nuts FRC Team** Founder/Lead Mentor
- Founded and expanded the team from 19 students (6 schools) to 30 students (10 schools).
  - Secured \$15,000 (year 1) and \$20,000 (year 2) in sponsorships for competition and robot building.
  - Promoted engineering education and community impact through an inclusive team culture.
  - Gained leadership experience by mentoring and guiding diverse students.
- 2024 - 2025*      **Ferzeri Legacy** Lead Mentor
- Mentored a robotics team in an underprivileged area, guiding sponsorship acquisition and technical operations.
  - Oversaw grant applications, robot design, manufacturing, and coding processes.
  - Helped the team harness robotics for community empowerment and growth.
- 2024 - 2025*      **Team Pulsar** Head of Mechanics
- Led rocket design and manufacturing for Teknofest Roket competitions.
  - Directed visual aspects of a VR game as Creative & Art Director for NASA challenges.
  - Developed technical expertise and interdisciplinary collaboration skills.
- 2020 - 2023*      **River Robotics** Head of Mechanics
- Achieved finalist status in 2022 and placed 4th/5th in regional competitions (2023).
  - Directed robot design, manufacturing, and assembly operations.
  - Conducted robotics lessons and partnered with an orphanage for outreach initiatives.
  - Maintained team performance during challenges such as the 2023 earthquake.
- 2021 - 2022*      **SADE UAV Project** Team Captain
- Designed a UAV for wildfire detection using NASA OpenVSP and MIT online coursework.
  - Published a research paper and reached competition finals.

- Expanded technical knowledge and connected with industry professionals.

## EXPERIENCE

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*2023 - 2023*      **Kümsan Crane Company** R&D Engineer

- Developed a rail measurement device for quality checks and a 3D visualization app for client pitches, improving project communication.
- Learned the importance of aligning product development with market demand and effective communication strategies in business.

*2022 - 2022*      **Alderi** Sales Specialist

- Worked with management to streamline workflows and improve operational efficiency.
- Represented the company at the International Leather Fair in India, where I engaged with global business partners, negotiated deals, and visited manufacturing facilities.
- Enhanced understanding of business management, finance, communication, and global trade.

## RESEARCH EXPERIENCE

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*2023-2024*      **DRONEAR: Drone Localization from Audio Cues Using Deep Learning Techniques**, Authors: Murathan Abdullaev, Mehmet Ozgur Sahin (Supervisor)

- Conducted interdisciplinary research on drone localization using audio signal processing and deep learning, culminating in a framework for multi-device audio synchronization and real-time tracking.

## EXTERNAL COURSE WORK

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*Season 2023*      **Introduction to Cognitive Science** Cornell University

*Season 2022*      **Quantum Physics** Sabancı University

*Season 2022*      **Introduction to Industrial Engineering** Sabancı University

*Season 2022*      **Successful Management in Business and Life** Sabancı University

*Season 2022*      **Entrepreneurship and Innovation** Sabancı University

## AWARDS

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- FRC Bosphorus Regional **Imagery Award**(2025)
- FRC Istanbul Regional **Rookie Inspiration Award**(2024)
- FRC Marmara Regional **Alliance Captain** (2024)
- NASA Space Apps Challenge **2nd place and Global Finalist** (2024)
- FRC İzmir Regional **Finalist** (2022)
- Teknofest Technology for the Benefit of Humanity **Finalist** (2022)
- Tekyaz Design Summit **Most Efficient Design Award** (2022)
- Roborave Poland Entrepreneurship category **1st place** (2019)
- Robotex Turkey **Champion** (2019)