

Irem Kurt

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EDUCATION

Aalto University

Espoo, Finland

B.Sc. Computational Eng. (Minor in Computer Science and Finance)

2022 - ongoing

- Selected for the **Dean's List** for two consecutive years in recognition of **academic excellence**.
- Organizations: Aaltoes, Tietokilta, Rakennusinsinöörikiilta
- Coursework: Machine Learning, Object Oriented C++ Programming, Data Structures, Fluid Mechanics

GPA: 4.33/5.00 **College Board SAT: 1560 (800M, 760E)**

CLUBS, LIVE PROJECTS AND STARTUPS

Beneq Oy

Espoo, Finland

Mechanical Engineer Intern

May. 2023 - August. 2023

- Designed advanced mechanical systems using CAD, **optimizing designs for manufacturability**.
- Assisted in prototyping and manufacturing processes, validating design concepts.
- Conducted **materials analysis** to improve strength, durability, and cleanroom compatibility.
- **Skills:** Mechanical Engineering, CAD, Materials Science, Additive Manufacturing, Quality Control

VEX Robotics

Istanbul, Turkey

Head of the Mechanics Team

September. 2019 - June. 2022

- Led a team of 14 to design and develop **competition-grade robots**, solving engineering challenges.
- Built and **optimized robotic components** with AutoCAD Fusion 360 and SolidWorks.
- Fostered innovation, teamwork, and technical excellence in robotics competitions.
- **Skills:** Robotics, CAD (Fusion 360, SolidWorks), Leadership, Mechanical Design, Strategic Thinking

TEDxYouth@TEVITOL

Istanbul, Turkey

Organiser

September. 2017 - June. 2022

- Directed end-to-end planning and execution of a TEDx event attended by **500+ participants**, securing **30% more sponsorship funding** compared to previous years.
- Led collaboration across logistics, marketing, and outreach, achieving a **25% increase in event attendance**.
- **Skills:** Event Management, Strategic Planning, Team Management, Stakeholder Engagement. Communication

UniPath

Istanbul, Turkey

Co-Founder

March. 2020 - ongoing

- Founded a virtual platform offering free counselling for students pursuing studies abroad.
- Produced **200+ live broadcasts** and **100+ blogs**, growing to **3,000+ Instagram followers**.
- **Skills:** Entrepreneurship, Leadership, Digital Marketing, Public Speaking, Community Engagement

PROJECTS UNDERTAKEN

Optimization of Nanoindentation-Related Crystal Plasticity Parameters, Research Project

2024

Developed machine learning algorithms to automate the calibration of crystal plasticity parameters based on nanoindentation data. Designed and implemented parametric studies using Python on the Finnish CSC platform, integrating strain rate testing with conical and cube corner indenters. Enhanced material modelling accuracy with CPFEM simulations, delivering a comprehensive workflow for automated parameter optimization.

ADDITIONAL QUALIFICATIONS AND VOLUNTEER EXPERIENCES

EY NextGen Women

Espoo, Finland

Finalist

2023

- Recognized among top women leaders in Finland for **outstanding analytical and leadership skills**.
- Collaborated on **cases in innovation and digital strategy**, presenting recommendations to industry experts.

Yale Young Global Scholars, Yale University

Remote

Attendee

2021

- Selected to attend the highly competitive "Innovations in Science & Technology" session.
- Received the prestigious **Full-Merit Scholarship** in recognition of **outstanding academic excellence**.

AWARDS & INTERESTS

- **World Championship Finalists** - VEX Robotics International Competition (2021)
- **National Champion** - VEX Robotics Turkey (2019, 2020, 2021, 2022)
- **1st Place Winner (UniPath)** - Celebrating High School Innovators; \$1,000 prize; Of 50+ startups
- **Canadian Intermediate Math Contest (CIMC)**; Top 30 Globally and Top 3 Nationally