

Berkay Ataçođlu

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EDUCATION

Marmara University

Bachelor of Science in Mechanical Engineering in English

Istanbul, Türkiye

Graduated Jun 2026

EXPERIENCE

Maintenance Technician

NephroCan Medical

Aug 2025 – Jan 2026

Istanbul, Türkiye

- Took vibration measurements and designed a vibration isolator for a delicate machine
- Designed components for a vertical fine cutting machine to improve surface quality
- Improved PID parameters for a temperature control system which decreased startup idle wait time
- Assembled/disassembled machines, performed maintenance, prepared reports, worked with pneumatics

Engineering Intern

NephroCan Medical

Jul 2024 – Aug 2024

Istanbul, Türkiye

- Operated a milling machine and made numerous parts
- Assembled/disassembled dialysis machines, performed quality control and testing
- Created operational process charts for reverse osmosis water purification machines' assemblies

Freelancer & Carpenter's Apprentice

Guzelce Marangoz, Yeni Nesil Kafası, Others

Irregular – Ongoing

Istanbul, Türkiye

- Assembled/disassembled carpentry products, took measurements, operated power tools
- Worked as a freelance video editor for YNK and many others. Did 300+ videos
- Worked as a translator for an official wedding in Istanbul between 2 foreign nationals

PROJECTS

Expert System Based AI Software on Vibration Based Machinery Fault Diagnoses

Sep 2024 – Jun 2025

- Developed an algorithm for weighing in user input based on linear algebra concepts using Python
- Used JavaScript(SvelteKit) to build a UI and baked it inside my personal website
- Prepared an extensive report as my graduation project

The app can be accessed via: batacoglu.com/graduation-project

Ball Balancing Table

Sep 2024 – Feb 2025

- Used two small RC servo motors for actuation signaled by Arduino Nano
- Tracked the ball using an high-speed camera with OpenCV
- Built a PID controller using Python and installed it on a Raspberry Pi 5

Automated Multi-Gem Faceting Machine {Work in Progress}

Apr 2026 – Ongoing

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You can check out more on my website: batacoglu.com/projects

TECHNICAL SKILLS

CAD & CAE: Siemens NX & Solid Edge, SolidWorks, Onshape, Ansys Mechanical, Lotus Engine Program

Programming: Python (via NumPy, OpenCV, Matplotlib, SciPy, etc.), MATLAB

Complementary: Microsoft Word & Office, LaTeX, HTML, CSS, JavaScript, DaVinci Resolve

Languages:  Turkish: Native |   English: Fluent |  German: A2 Level