

Berkay Ataçođlu

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EXPERIENCE

Maintenance Technician

Aug 2025 – Jan 2026

NephroCan Medical

Istanbul, Türkiye

- Designed custom mechanical vibration isolators for sensitive medical equipment following vibration analysis
- Designed structural components for a vertical fine-cutting machine to optimize surface finish quality
- Calibrated PID parameters for thermal control systems, successfully minimizing idle startup delays
- Executed machine assembly/disassembly, pneumatic system troubleshooting, and technical reporting

Engineering Intern

Jul 2024 – Aug 2024

NephroCan Medical

Istanbul, Türkiye

- Developed operational process charts for reverse osmosis water purification system assemblies
- Utilized conventional milling and machining workflows for component fabrication and prototyping
- Assisted in dialysis machine quality control testing and mechanical teardowns

Independent Work

Guzelce Marangoz, Yeni Nesil Kafası, Others

Istanbul, Türkiye

- Executed hands-on fabrication, precision measurements, and power tool operations for wooden structures
- 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

EDUCATION

Marmara University

Istanbul, Türkiye

Bachelor of Science in Mechanical Engineering in English

PROJECTS

Expert System Based AI Software on Vibration Based Machinery Fault Diagnoses

- Developed an algorithm for weighing in user input to estimate the fault modes based on linear algebra concepts using Python(NumPy)
- Used JavaScript(SvelteKit) to build the UI and FastAPI to fetch the results to my personal website
- Prepared an extensive report as my graduation project

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

Ball Balancing Table

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

Details can be accessed via: batacoglu.com/projects/ball-balancing-table

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

TECHNICAL SKILLS

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

Programming & Data: Python(NumPy, OpenCV, Matplotlib, SciPy), Matlab, Simulink

Complementary: LaTeX, JavaScript(SvelteKit), DaVinci Resolve

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