

# Berkay Ataçoglu

 [batacoglu](#) |  [batacoglu](#) |  [batacoglu.com](#) |  [batacoglu@gmail.com](mailto:batacoglu@gmail.com) |  +90 554 638 2002

## SUMMARY

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I'm a 26 years old mechanical engineer mostly interested in automation/control. I have 5 months worth of work experience. I'll receive my diploma in early June 2026. I'm fluent in English and currently studying German. I have a driver's license. My military service obligation isn't until 2029.

## WORK EXPERIENCE

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### Maintenance Technician @ NephroCan

Total of 3.5 months between Aug 2025 - Jan 2026

I worked inside a clean room where medical blood filters are produced. I've improved PID parameters for a heating system, took vibration measurements and designed a vibration isolator for a delicate machine, designed an assembly for a cutting machine to improve surface quality, analyzed stations and pinpointed choke points, did analytical calculations and forecasted potential gains.

### Engineering Intern @ NephroCan

1.5 months between Jul 2024 - Aug 2024

I worked in the workshop and learned about manufacturing processes. I've assembled dialysis machines, helping barely finishing an order before deadline. I've operated a milling machine, studied water purification machines and learned every manufacturing process for each of their parts. I've created operational process charts for said parts. I've attended business meetings and took trips to manufacturing plants.

### Others

Irregular

I help my father as a Carpenter's Apprentice whenever he needs help or often when I have spare time. Mostly for assembling/disassembling of furnitures. I also did freelance work both as a video editor for a company and as a translator for an official wedding.

## PROJECTS

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### My Graduation Project

[Link to Demo](#)

My graduation project, titled **Expert System Based AI Software on Vibration Based Machinery Fault Diagnoses**. More information is on my website.

### Self Balancing Table

[Link to Demo](#)

I have designed and built a ball balancing table. It uses a camera to track the location of the ball, uses a Raspberry Pi 5 to run a PID controller designed after a kinematic model of the system and small RC servos to tilt the table. More about it and its CAD files are on my website.

## EDUCATION

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### Marmara University: Mechanical Engineering in English

I'll receive my diploma in Jun 2026

## SKILLS

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Languages: Turkish (Native) - English (Fluent) - German (A2)

CAD and engineering: SolidWorks, OnShape, MATLAB, Python

Development: HTML, CSS, JavaScript

Office tools: Microsoft Word and Excel

Brief experiences in: Ansys, Lotus Engine, CODESYS