

# Thomas Mikschi



Degree: BSc

Date of birth: 03.09.2000

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## Languages

German – C2

English – B2

## Skills

Communication – Teamwork

Adaptability

Time Management

Creativity

Problem-Solving in Teams

B driver's license

## Software Experience

CAD | Fusion 360 • Catia • MicroStation • SketchUp • SolidWorks

Engineering Software | MDesign • SIMPACK • KISSSoft • GeoGebra

Programming | Python • Matlab • Arduino • CSS • Javascript

IT Software | Office 365 • SAP • Prezi

## Manufacturing Skills

Metalworking | turning on a lathe • milling • grinding • welding

Skilled soldering

Experienced woodworking

3D printing

## Personal Statement

Passionate mechanical engineer with a strong technical background, hands-on experience and a track record of recognition in national competitions. My diverse projects – ranging from tutoring to industry collaborations – reflect my commitment to continuous learning and innovation. Eager to bring my skills and creativity to new challenges in the field.

## Work Experience

07/2025

### R&D Safety Intern – *Hoerbiger*

During my internship in the R&D Safety department, I worked on active and passive protection systems for dust explosions and designed a specialized camera housing for recording explosion tests under extreme conditions.

11/2024

- 12/2024

### Project Assistant – *Technical University of Vienna*

As part of my bachelor thesis, I adapted and rebuilt a ball-launcher, and I now continue to oversee its operation and supervise a student.

08/2024

& 08/2021

### Aquatic Field Sampling & Wildlife Photography

– *Museum of Natural History*

For two projects, I had the opportunity to collect fish samples and underwater footage in remote locations of Austria.

## Education

10/2024

### Mechanical Engineering, MSc

*Technical University of Vienna*

10/2024

### Minor Program Digital Skills

*Technical University of Vienna*

10/2019

### Mechanical Engineering, BSc

*Technical University of Vienna*

- 06/2024

Bachelor thesis – "Restoration and Adaptation of a Ball Throwing Machine"

09/2011

### Academic High School

*BRG18 Schopenhauerstraße, Vienna*

## Awards

07/2019

### Hans Riegel Physics Award – 2<sup>nd</sup> Place

For my pre-scientific paper "Effects of Various Parameters on the Braking Distance of an RC Vehicle," which enabled my membership in the MINT-Tank network.

05/2018

### CAD Design Competition Austria – 4<sup>th</sup> Place

## Projects

### Creative Projects

Completed numerous projects: 3D-printed boat, floor lamp, speakers, rings, and an LED matrix – some with Arduino and Raspberry Pi. Gained solid skills in design, prototyping, and material processing.

### Youtube – Tom's RC Adventures

In my early years, I founded a YouTube channel to share my hobby. Since 2014, it has gained over 10 million views and enabled collaborations with companies.