

# Baptiste Bühler

MSc Mechanical Engineering, focusing on biomechanics EPF



## About me

MSc Mechanical Engineering EPF  
focusing on biomechanics.  
Want to find a new job position to  
start my career.

## Areas of specialization

Biomechanics • Conception  
• R&D

## Professional interests

Health • Medicine • Prosthesis  
• Robotic surgery

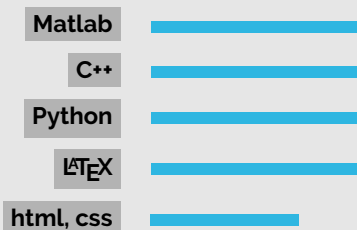
## Hobbies

Running • Triathlon  
• Choir singing

## Languages

French : native  
English : C2  
German : B2

## Programming



## Personal

Baptiste Bühler  
17.12.2000



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in LinkedIn account





## WORK EXPERIENCE

- 2024–today **Support teacher**  
COMPANY · PHASSYL   
Teaching principally Mathematics and Physics for EPFL students.
- 2025–today **Mechanical engineer intern**  
STARTUP · Autonomyo   
Master Thesis : "Development of a novel body-weight support for rehabilitation - focus on usability".

## VOLUNTEERING

- 2024–today **Chief Communication Officer**  
STUDENT ASSOCIATION · BioSense EPFL   
In charge of communication and promotion of the association.
- 2024–today **Mechanical engineer**  
STUDENT ASSOCIATION · N-Pulse EPFL   
Development of an open-source arm prosthesis controlled by EMG.

## EDUCATION

- 2020 **Maturité gymnasiale - OS biology-chemistry**  
SWITZERLAND · Lycée-Collège de la Planta 
- 2022 **Exchange year**  
SOUTH KOREA · KAIST 
- 2023 **BSc Mechanical Engineering**  
SWITZERLAND · EPFL 
- 2025 **MSc Mechanical Engineering**  
SWITZERLAND · EPFL 

## PROJECTS

- 2023 Model predictive control of a mini-rocket
- 2024 **Semester project** : Design of an autonomous system to change bed sheets in nursing home (REHAssist EPFL)
- 2024 Development of a cycling ergometer onto which it is possible to perform force measurement of the knee extensor and biopsy
- 2024 Data-driven design of a vortex paper plane - geometry optimization
- 2024 **Semester project** : Development of a flexible scaffold structure, able to pulse, for organ-on-chip purpose (INSTANT-LAB EPFL)
- 2025 **Master Thesis** : Design of a novel body-weight support device for rehabilitation - focus on usability (Autonomyo)

# SKILLS

## Hard Skills

<b>Computer-Aided Design (CAD)</b>	Proficiency in software like SolidWorks, CATIA, or Fusion 360
<b>Finite Element Analysis (FEA)</b>	Experience with COMSOL and Fluent
<b>Programming</b>	Proficiency in Matlab, Python, and C++. Knowledge of Simulink and LabVIEW
<b>Robotics</b>	Knowledge of control systems, actuators, and sensors
<b>Manufacturing</b>	Knowledge of 3D printing, laser cutting, and materials selection

## Soft Skills

Flexibility    Willing    Precise    Autonomous    Reliable    Rigorous

## WORK STYLE & TEAM ROLES (BELBIN)

Team Role	Score	Visual Representation
Teamworker (TW)	99%	<div></div>
Implementer (IMP)	88%	<div></div>
Co-ordinator (CO)	53%	<div></div>
Completer Finisher (CF)	34%	<div></div>
Plant (PL)	34%	<div></div>
Specialist (SP)	20%	<div></div>
Shaper (SH)	18%	<div></div>
Resource Investigator (RI)	14%	<div></div>
Monitor Evaluator (ME)	0%	

<b>Main strengths</b>	Supportive, dependable, and structured. Thrives in cooperative teams.
<b>Preferred roles</b>	Teamworker and Implementer – practical, adaptable, and empathetic.

## REFERENCE

<b>Dr Charles Baur</b>	Scientific associate at INSTANT-LAB EPFL, charles.baur@epfl.ch
<b>Dr Amalric Ortlieb</b>	CTO at Autonomyo, amalric.ortlieb@autonomyo.ch