

Flavio Müller

30. Oktober 1995 in Basel
Untere Vogelsangstrasse 173
8400 Winterthur, CH
Mobil: +41 76 467 10 10
E-Mail: flavio.mueller@gmail.com



Education

- 09/2020 – 06/2022 **Master of Science ETH in Mechanical Engineering**
ETH Zürich (Swiss Federal Institute of Technology in Zurich)
Focus on Product Development and Biomedical Engineering
- Master Thesis: *Human-Centered Development of a Shoulder Exoskeleton for Industry Workers* (Rehabilitation Engineering Lab)
 - Development of a Shoulder Exoskeleton from conception to prototype
 - Evaluation of the final prototype in the Biomechanics lab to determine the muscle support
 - Grade: 5.75/6
 - Semester Project: *Development of an Upper Body Exoskeleton for Industry Workers* (Rehabilitation Engineering Lab)
 - Development of upper body exoskeletons
 - Usability evaluation of the different exoskeletons
 - Grade: 5.75/6
 - Team member of the course project in *Interdisciplinary product development*
 - Development of an improved Pillbox with additional features
 - Grade: 5.75/6
- 09/2015 – 02/2020 **Bachelor of Science ETH in Mechanical Engineering**
ETH Zürich (Swiss Federal Institute of Technology in Zurich)
- Focus Specialization on Design, Mechanics and Materials
 - Bachelor Thesis: *3D Printed sensors to measure contact force in climbing* (Rehabilitation Engineering Lab & Laboratory of Composite Materials and Adaptive Structures)
 - 3D printing of force sensors out of piezoelectric material
 - Determination of maximal detectable force
 - Grade: 5.5/6

Work experience

- 04/2023 – 12/2023 **Intern and junior mechanical engineer at mechanics and industrial design team at Scewo AG**
- Generate concepts for new subsystems of the Scewo BRO wheelchair
 - Development of prototypes
 - Realization of chosen concepts to the finished product
- 09/2022 – 03/2023 **Junior consultant in engineering at Alten CH**
- Consultant in Requirements engineering
 - Management and QC of delivered Test Cases
 - Organization of the delivered Documents with Polarion and DMS
- 10/2021 – 05/2022 **Bartender at Bierwerk Zürich**
- I'm serving costumers
 - I solve problems with different costumers
- 09/2021 – 10/2021 **Mandatory civil service completed at Heilsarmee Broki Zürich**
- I collected and transported furniture, did costumer care and was working at the cash deck

09/2020 – 11/2020	Product development engineer (40%) at Auxivo AG <ul style="list-style-type: none"> ▪ I further developed the Carrying exoskeleton from my Internship ▪ I worked as 3D printer support ▪ I did the quality control of a Lifting exoskeleton
03/2020 – 08/2020	Internship at Auxivo AG <ul style="list-style-type: none"> ▪ I developed and evaluated first iterations of a carrying exoskeleton ▪ I programmed and supervised a test bench ▪ I tested and evaluated several other exoskeletons
06/2014 – 10/2014	Mandatory military service (RS)
03/2015 – 08/2015	Working in the Production at Müller Steel <ul style="list-style-type: none"> ▪ I learned different processing techniques using different production machines.

Patents

• OmniSuit, Auxivo AG	EP23160248.3
• DeltaSuit, Auxivo AG	EP23160247.5

IT Skills

• Fusion360, NX Siemens	Advanced
• 3D Printing	Advanced
• LaTeX, Microsoft Office	Advanced
• Polarion	Basic knowledge
• MatLab	Basic knowledge
• C++	Basic knowledge

Langagues

• German	Mother tongue
• English	Very good
• French	Matura level
• Italian	A2

References

Dr. Lijin Aryananda STEM initiative +41 76 433 08 00	Supervisor of my master thesis
Marc Lienhard Scewo AG marc.lienhard@scewo.ch	Head of mechanics and industrial design

Private interests

Realization of small projects with my 3D printer, bouldering, yoga, bodyweight training, surfing, cooking.