

FRANKA BAUER

Mechanical Engineering @ETH Zurich | SDW Scholarship | Finalist @ISEF 2024

📍 Greater Zurich Area, Switzerland

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EDUCATION

- 09.2023 – 07.2026 **ETH ZÜRICH** – SWISS FEDERAL INSTITUTE OF TECHNOLOGY
Bachelor of Science ETH in Mechanical Engineering, B.Sc. ETH
Current GPA: 5.93/6.0 (Swiss Grading Scale)
Additional coursework: Space Research and Exploration, ETH-Week 2023 Circular Realities
- 08.2019 – 07.2023 **LANDESSCHULE PFORTA** – HIGH SCHOOL WITH ENTRANCE EXAM FOR GIFTED STUDENTS
9th - 12th grade, German Abitur (A-Level) | Natural Science Class
Advanced courses in Mathematics, Physics, English | STEM Honor Certificate | Merit-based Scholarship
SAT Score: 1530/1600 (99th Percentile), 780 Math, 750 EVBRW | Duolingo English Test: 150/160
GPA: 1.0/6.0 (German Grading Scale), 887/900 Points (Top 1% in Germany)

WORK AND RESEARCH EXPERIENCE

- 04.2024 – 10.2024 **BOSTON CONSULTING GROUP** – FUTURE SHAPER CLASS OF 2024
- 06.2024 **OPTIVER** – INSIGHT DAYS
- 03.2024 **DEUTSCHE BANK** – SPRING INTO BANKING
- 01.2022 – 09.2023 **SMART EXPLAIN UG** – START-UP CREATING EXPLANATORY VIDEOS FOR ORTHODONTISTS
Co-Founder and Graphic Designer
Illustration and animation of 45 educational videos, website design and promotional material
Successful negotiations with high profile business partners resulting in cooperation
- 09.2021 – 07.2023 **PFORTECH** – STUDENT COMPANY AT LANDESSCHULE PFORTA
Head of 3D-printing Division, Workshop Manager
Design and manufacturing of merchandise using CAD-Software and 3D-printing
Generating revenues over 1400% of material and printing costs and overseeing finances in the company
- 08.2021 – 10.2021 **FRAUNHOFER IWS INSTITUTE** – WORLD'S LEADING APPLIED RESEARCH ORGANIZATION
Research Internship, Group of Dr. Stepien
“A Parameter Study of 17-4PH using Metal Fused Filament Fabrication”
Possible applications in aerospace industry, prosthetic and medical technology
Award for the best scientific research paper by a student by the Association of German Engineers
Award from the University of Leipzig for commitment to practical developments and communication of scientific concepts

AWARDS AND CERTIFICATES

- 05.2024 **REGENERON ISEF** – LARGEST AND MOST PRESTIGIOUS STUDENT SCIENCE AND ENGINEERING FAIR WORLDWIDE
- 11.2023 **JPMORGAN CHASE** – INVESTMENT BANKING JOB SIMULATION
- since 10.2023 **MERIT-BASED EXCELLENCE SCHOLARSHIP** – FOUNDATION OF GERMAN BUSINESS (SDW)
Awarded based on Academic Excellence, Ambition, Critical Thinking, General Knowledge, Social Commitment
- 03.2023 – 05.2023 **JUGEND FORSCHT** – LARGEST YOUTH SCIENCE COMPETITION IN EUROPE
Finalist in national competition | Selected to represent Germany at Regeneron ISEF 2024 in Los Angeles
1st Prize in Regional and State Competition | Special Prize in Engineering (Association of German Engineers)
- 09.2022 **LEOPOLDINA** – GERMAN ACADEMY OF SCIENCES
Academic Scholarship for attending the Annual Assembly | Exchange with Researchers and Nobel Laureates
- 07.2022 **APYLS** – ASIAN PACIFIC YOUNG LEADERS SUMMIT IN SINGAPORE
Selected as one of the three Representatives out of all German High School Students
Award for the Best Group Performance in the Business and Politics Simulation
Qualified for presenting to the President of Singapore as one of the top three speakers

SKILLS AND INTERESTS

PROGRAMMING LANGUAGES

C# - 2 years | C++ and Python - 1 year

ROBOTICS AND MECHATRONICS

Arduino - 1 year | Active member of the Student Project House

COMMUNICATION

Debate Club - 3 years | Workshop Leader - 2 years

Elected Speaker in Boarding House

CAD AND 3D SOFTWARE

Blender - 5+ years | Autodesk Fusion360 and Siemens NX - 1 year

GRAPHIC DESIGN

Adobe Illustrator - 2 years | Keen interest in Art and Design

TEAMWORK

Experience in Design Thinking Process

Elected Representative in School Council