Franka Bauer

CSE @ETH Zurich | SDW Scholarship | Finalist @ISEF '24

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Education

09.2023 – 07.2026   **ETH Zurich** – Swiss Federal Institute of Technology
Bachelor of Science ETH in Computational Science and Engineering, B.Sc. ETH
Current GPA: 5.93/6.0 (Swiss Grading Scale)
Additional activities: Hackathon at MIT (HackMIT), Lecture Series on 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

09.2024 – 02.2025   **ETH Zurich** – Teaching Assistant

04.2024 – 10.2024   **Boston Consulting Group** – Future Shaper Class of 2024

06.2024   **Optiver** – Insight Days
Introduction to Market Making and Option Theory | Trading Simulations

04.2024 – 06.2024   **McKinsey & Company** – Next Generation Women Leaders
Workshops on Communication, Personal Growth and Leadership

03.2024   **Deutsche Bank** – Spring into Banking
Introduction to Investment Banking, Corporate Bank, Wealth Management | FIC Case Study | Trading Simulation

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

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Awards and Certificates

05.2024   **Regeneron ISEF** – Largest and Most Prestigious Student Science and Engineering Fair Worldwide

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

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Skills and Interests

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

CAD and 3D Software
Blender - 5+ years | Autodesk Fusion360 and Siemens NX - 1 year

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

Web Development
Basics in HTML and CSS

Communication
Debate Club - 3 years | Workshop Leader - 2 years
Elected Speaker in Boarding House

Teamwork
Experience in Design Thinking Process
Elected Representative in School Council