Patricia M. Strutz

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EDUCATION

Stanford University **Stanford, CA**
Candidate for B.S. in Electrical Engineering *Expected Graduation in 2025*
GPA: 3.776
Relevant Coursework: Linear Algebra, Multivariable Calculus, and Modern Applications; Programming Abstractions; Mathematical Foundations of Computing; Probability for Computer Scientists; Introduction to Neuroelectrical Engineering; Differential Equations; An Intro to Making: What is EE

Munich International School **Munich, Germany**
Bilingual IB Diploma – 44/45 points *2015 – June 2021*
GPA: 7.0 (equivalent to US unweighted 4.0)

ENGINEERING EXPERIENCE

Intelligent Robotic Interaction at Scale (IRIS) Lab, led by Prof. Chelsea Finn **Stanford, CA**
Part-time Research Assistant & Full-time Summer Research Intern *January 2022 – Now*

- Independent research project: new method for implicit goal-conditioned behavior cloning
- Implemented 4+ simulated robotic environments
- Collaboration with Berkeley Researchers
- PyTorch for Reinforcement Learning, Machine Learning, Neural Networks
- 200+ hours of model training
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Independent Project, Stanford Brain-Computer Interfaces (SBCI) **Stanford, CA**
Project Leader *Fall 2021 – Now*

- Building EEG from scratch
- Developing custom chip for EEG recordings to be used by the club for further projects

Technical University of Munich, Chair of Information-oriented Control **Munich, Germany**
Remote Summer Research Intern *June 29th – August 19th, 2020*

- Python implementation of the novel Gaussian process regression approach proposed in "Real-Time Regression with Dividing Local Gaussian Processes" by Armin Lederer et al.
- Techniques employed: Gaussian process regression using the Cholesky factorization, building binary trees, recursive algorithms, generating 2- and 3-dimensional plots
- Participated in 21. IFAC World Congress

SKILLS & INTERESTS

- Python programming, PyTorch
- Circuits, Circuit Design, Digital Logic
- Neuroscience and Psychology
- Control of Mobile Robots Coursera course offered by Georgia Tech (May 2020)
- Basic C++ Proficiency
- Brain-Computer Interfaces, Sensors, Wearable Devices, Robotics
- Spreadsheets
- Machine Learning Coursera course offered by Stanford University