

# Lukas Klostermair

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## Education

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Since 04/2024	<b>Technical University of Munich</b> M. Sc. Biomedical Engineering and Medical Physics <ul style="list-style-type: none"><li>■ Specializing in Deep Learning and Robotics</li><li>■ Current GPA: 1.7/1.0 (Current Ranking Top 12%)</li></ul>	Munich, DE
09/2019 – 11/2023	<b>University of Applied Sciences Regensburg</b> B. Sc. Biomedical Engineering <ul style="list-style-type: none"><li>■ Specializing in Machine Learning and Dynamics</li><li>■ GPA: 1.8/1.0 (Top 20% “cum laude”)</li></ul>	Regensburg, DE
01/2022 – 07/2022	<b>Universidad EAN</b> Semester abroad; classes in Chemistry, Finance, and Project Management <ul style="list-style-type: none"><li>■ GPA: 4.0/4.0</li></ul>	Bogotá, CO
09/2010 – 07/2018	<b>Schyren Gymnasium Pfaffenhofen</b> Secondary Education with a focus on natural sciences <ul style="list-style-type: none"><li>■ GPA: 2.2/1.0</li></ul>	Pfaffenhofen, DE
09/2006 – 07/2008	<b>Christ Church Episcopal School</b>	Greenville, US

## Professional Experience

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Since 12/2024	<b>Baind AG</b> <i>Student Machine Learning Engineer</i> (Part Time), AI Engineering <ul style="list-style-type: none"><li>■ Built and maintained machine learning data pipelines utilizing Google Protocol Buffers, Docker and Kubeflow Pipelines</li><li>■ Optimized computational efficiency of two machine learning models by 40% each</li><li>■ Assisted in the design and implementation of a scalable, constraint-based reinforcement learning gym environment, enabling horizontally scalable energy optimization for building energy management systems</li></ul>	Munich, DE
09/2024 – 12/2024	<b>Intelligent Neuroprosthetics and Human Robotics Lab</b> <i>Student Researcher</i> (Part Time); Prof. Cristina Piazza <ul style="list-style-type: none"><li>■ Designed and built hand prosthesis socket with modular control strategies</li><li>■ Developed semi-autonomous dexterous grasping with object recognition as tutor in the course “<i>New Technologies in Neurorehabilitation and Motor Learning</i>”</li></ul>	Munich, DE
03/2023 – 11/2023	<b>F. Hoffmann La Roche AG</b> <i>Student Researcher</i> (Full Time); Engineering, Science and Technology (ES&T) <ul style="list-style-type: none"><li>■ Bachelor thesis topic “<i>Enhanced Validation Strategies for Depyrogenation Tunnels: A Case Study at Roche Switzerland</i>”</li><li>■ Developed new validation strategy based on predictive model through data monitoring, reducing validation down time by 60%</li></ul>	Basel, CH
09/2022 – 02/2023	<b>Syskron GmbH / Krones AG</b> <i>Student Project Manager</i> (Part Time); Research and Development <ul style="list-style-type: none"><li>■ Assembled financial models for budget forecasts regarding over 20 projects</li><li>■ Participated in yearly budget planning with Controlling and C-levels</li><li>■ Remodeled and standardized budgeting input template for DACH R&amp;D Department</li></ul>	Regensburg, DE

09/2021 – 02/2022	<b>BMW AG</b> <i>Innovation Intern</i> (Full Time); Quality and Innovation	<b>Munich/Regensburg, DE</b>
	<ul style="list-style-type: none"> <li>■ Operated over 5 TB of data for Machine Learning project with IT Consulting firm</li> <li>■ Coded Micro-IT Solutions in MS PowerApps for Germany-wide rollout</li> </ul>	
03/2021 – 08/2021	<b>University of Applied Sciences Regensburg</b> <i>Teaching Assistant</i> (Part Time); Technical Mechanics III – Dynamics	<b>Regensburg, DE</b>
02/2020 – 09/2021	<b>Ilmtalkliniken GmbH</b>	<b>Pfaffenhofen, DE</b>
01/2019 – 05/2019	<i>Intern</i> (Full Time) and <i>Working Student</i> (Part Time); Nursing and Functional Medicine	

## Projects & Extracurricular Activities

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03/2025	<b><i>TinkerHand – robo.innovate Hackathon – Team Member</i></b>	
	<ul style="list-style-type: none"> <li>■ Developed Robotic assistant capable of reacting to speech based on the SO-100</li> <li>■ Built speech2text pipeline that selects ACT policies through keyword recognition</li> </ul>	
10/2024 – 02/2025	<b>Generative Classifiers in Tactile Classification – Advanced Deep Learning in Robotics, German Aerospace Center (DLR) – <i>Project Member</i> [<a href="#">Github</a>]</b>	
	<ul style="list-style-type: none"> <li>■ Evaluated Invertible Neural Network with Generative Classifier as trustworthy alternative for robotic tactile classification task</li> <li>■ Conducted ablation study to optimize state-of-the-art architecture TactNet-II</li> </ul>	
04/2024 – 10/2024	<b>TUM Green Tech Initiative – <i>Co-Founder &amp; Board Member</i></b>	
	<ul style="list-style-type: none"> <li>■ Led Technical Team of subgroup “Artificial Photosynthesis” (10+ members)</li> <li>■ Organized and managed meetings and workshops</li> <li>■ Represented Team and TUM Green Tech to external companies</li> </ul>	
01/2024 – 12/2024	<b>DIY 3D-printed Robotic Hand with Radio-controlled Interface Glove [<a href="#">Github</a>]</b>	
	<ul style="list-style-type: none"> <li>■ Developed a robotic hand with a remote-control glove and material cost below 150 €</li> <li>■ Managed project with multiple iteration rounds and structured development approach</li> <li>■ Designed parts in CAD, circuitry in Fritzing, and programmed Arduinos</li> </ul>	
11/2023 – 02/2024	<b>Robotic Arm – HackaHealth at ETH Zürich – <i>Project Member</i> [<a href="#">Github</a>]</b>	
	<ul style="list-style-type: none"> <li>■ Developed adaptive robotic arm prototype for quadriplegic patient</li> <li>■ Designed parts &amp; mechanical concept of prototype</li> <li>■ Reiterated 3 times with ETH funding to develop personalized prototype</li> </ul>	
03/2023 – 11/2023	<b>Engineering, Science and Technology (ES&amp;T) Squad Roche – <i>Board Member</i></b>	
	<ul style="list-style-type: none"> <li>■ Assisted in department-wide workshop involving over 120 employees</li> <li>■ Led the onboarding of new interns in the ES&amp;T department</li> </ul>	

## Skills & Interests

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<b>Tools</b>	Microsoft Office, MATLAB, CAD (CATIAV5, Fusion360, Solidworks), Python, C++
<b>Languages</b>	English (Native), German (Native), Spanish (Intermediate)
<b>Scholarships</b>	TU Munich Germany Scholarship (2024), Josef Stangelmeier Scholarship (2022), PROMOS (2022)
<b>Interests/Hobbies</b>	3D-printing, Guitarist, Surfing, Soccer player, Skiing