

Resume

Name	Xiaoyang Liu
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Education

09/2013 – 06/2017	Hefei University of Technology (China) Subject: Mechanical Engineering and Automation, Bachelor
04/2020 – 01/2024	Technical University of Munich Subject: Mechatronics and Robotics, Master

Research Experience

06/2022 – 12/2022	Semester Thesis "Semantic Mapping using Human Action Recognition in Real Time". Real-time recognition of human action using human skeletons and objects in ROS. Keywords: C++, OpenCV, RTAB-Map.
06/2023 – 01/2024	Master Thesis "A Novel Strategy for Human-Robot Collaboration by Leveraging Human Behavior". Construction of a real-time human-robot collaboration system. Keywords: C++/Python, Machine Learning, Graph Convolutional Neural Network, Diffusion Model, Robot Simulation, Path Planning. Parts of the project were exhibited at Automatica 2023.

Work Experience

07/2017 – 01/2018	Worked as mechanical engineer in Hefei BOE Display Technology Co., Ltd.. BOE is the world's largest LCD TV and monitor manufacturer. During my work, I was mainly engaged in machine installation, equipment debugging, troubleshooting and sample manufacturing.
01/2023 – 07/2023	Internship in the development of driver assistance systems in BMW Group. Working at the BMW Autonomous Driving Campus, my main responsibilities included: Creating software for the automated evaluation of user data for autonomous driving functions. Designing the display content for the new generation BMW Dashcam's video driving information and developing tool software.

Skills

Language	German (C1), English (C1), Chinese (Native language)
Programming skills	Python, C++, Lua
Others	Microsoft Office, MATLAB, AutoCAD, SolidWorks