

Johannes Przybilla

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WORK EXPERIENCE

株式会社 **MOLCURE** | LEAD SOFTWARE ENGINEER

Tokyo, Japan | Feb 2022 - Today

- Leading small team to realize novel robotics module to enable fully-automated PCR experiments.
- Design and implementation of digital twin of robotics platform using **Unity**.

FIGNNY CO., LTD. | SOFTWARE ENGINEER (CONTRACT)

Tokyo, Japan | Sep 2022 - Nov 2022

- Worked on computer graphics engine for building orthodontics software tools using **three.js**.

NAGOYA UNIVERSITY | SOFTWARE ENGINEER (CONTRACT)

Nagoya, Japan | Feb 2022 - Nov 2022

- Created VR app for mobile robotics platform in cooperation with Nagoya University Kawaguchi Lab, allowing inter-space communication between virtual and real spaces using **Unity**.
- Presented poster at SIGGRAPH 2022: MetaPo: A Robotic Meta Portal for Interspace Communication.

株式会社 **MOLCURE** | SOFTWARE ENGINEER

Tokyo, Japan | May 2020 - Jan 2022

- Created VR demonstration of robotic system using **Unity** for **Oculus Quest 2**.
- Designed and implemented calibration system using **Python** and **C++** to enable precise control of dispensing robot.
- Designed and implemented desktop application using **Python**, **Qt** and **ROS** decreasing time to enable automation of biological experiments.
- Developed low level modules on embedded systems using **C++**.

ITEC RWTH AACHEN | RESEARCH ASSISTANT

Aachen, Germany | Jan 2019 - Dec 2019

- Daimler AG coop: Manufacture of MAKI robot and GUI implementation
- Implementation of Experiment Builder interface for Cozmo

EDUCATION

Computer Science M.Sc. (2 Semester)

Aachen, Germany | Oct 2018 - Oct 2019

RWTH AACHEN UNIVERSITY

Courses: Embedded Systems, Media Computing Project (Pneumatic soft robotic gripper)

Computer Science B.Sc.

Aachen, Germany | Oct 2014 - Oct 2018

RWTH AACHEN UNIVERSITY

Thesis: Automated Testing of Software Containing Externally Triggered Event Handlers

- Realized algorithm for C++ Symbolic Execution Engine KLEE; GNU gzip bug report

Courses: Computer Graphics, HPC, Webtechnologies, Compilerconstruction

PROJECTS

PARALLAX VIEW

WEBGL, DLIB

Off-axis projection correction using dlib library, WebGL and MacBook Air webcam.

SKILLS

Languages: Python, C#, C/C++, JavaScript

Tools: Unity, Qt, OpenGL, WebGL, ROS, Git, Docker, AWS, Perforce

Hardware: Arduino, ESP, Pololu A-Star, Raspberry Pi, Arbotix-M Robocontroller