Lennart **Maack**

lennart.maack@tuhh.de / Github

Education

2019 - today **Technical University of Hamburg** M.Sc. Mechatronics - Intelligent Systems and Robotics
- **Project Thesis: "Conditional GANs for generation of synthetic ultrasound images from small dataset" Corresponding paper for the journal CURAC is up for peer-review**
- **Current grade 1.4/1.0 (Top 7%)**

2020 **National University of Singapore** Visiting Master student
- **Courses: Microelectronics - Materials and Devices, Automation in Manufacturing, Introduction to Business Analytics, Asia and the Modern World**

2014 - 2019 **Technical University of Hamburg** B.Sc. Mechanical Engineering
- **Specialization in Aircraft Systems Engineering**
- **Winner of the Jungheinrich-Award 2017 (Link)**

Professional Experience

2021 - today **Fraunhofer Center for Maritime Logistics** Working student
- **Development of front- and backend for an automatic transcription system of the VHF marine radio for mission coordination with Qt & C++**

2019 - 2021 **Synergeticon GmbH** Working student
- **Implementation and maintenance of a neo4j database (graph database)**
- **Collaboration in the development of a web application for a production predict engine at Airbus using Vue.js and Python**

2017 - 2018 **Lufthansa Technik AG** Intern
- **Department Innovation Management/Test- and Tool-Equipment**
- **Collaboration in the execution of tests of aircraft actuators with Matlab**

2016 - 2017 **Technical University of Hamburg** Tutor
- **Leading several tutorials for first-year students at the TUHH**

Projects

2022 **CoVision** 1st place in TUM.ai Makeathon AI4SocialGood (280 participants)
- **App that helps visually impaired people by identifying covid rapid test results (positive/negative/empty) using object detection and image classification**
- **Python, TypeScript, React (Github repo)**

2021 **SkinDiseaseApp**
- **Web App that can distinguish between different skin diseases using CNN**
- **Python, JS, HTML, CSS (Github repo)**

2020 **Maze-Solver**
- **Lego Mindstorm robot with different sensors that navigates through unknown maze**
- **Java (Github repo)**

Skills

Languages:	Python, Java, HTML, CSS, Javascript, C++
Technologies:	Pytorch, Bash, Git, Docker, Qt, neo4j, Inkscape