

LIM MING HONG

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EDUCATION

National University of Singapore | Bachelor of Engineering

Aug 2017 - Present

- Major: Computer Engineering (Specialization in Internet of Things)
- Expected honours classification: Distinction (Second Class (Upper) honours)
- NUS Overseas Colleges Munich, Batch 4

ACADEMIC PROJECTS

- **Dance Dance:** A wearable device that automatically detects dance moves. I implemented the connection between the various systems using the TCP/IP model and ensured its security by encrypting the data transmitted with AES.
- **Active Aid:** An Internet of Things (IoT) project that aims to design a wearable device that can help users determine whether they are within a healthy range of physical exertion. Technologies used includes everything in the IoT stack.
- **Quora Insincere Questions Classification:** A research study on how different machine learning models perform when used to classify sincerity in questions.
- **CorpPro:** A Java desktop application designed to allow users to better manage their contacts in an organized environment.

WORK AND INTERNSHIP EXPERIENCES

GovTech Singapore | Embedded Engineer (Intern)

Nov 2020 – Jan 2021

- **Integrated sensors** with their sensors platform by creating libraries which allows other developers to interface with them.
- **Implemented features** such as Bluetooth mesh by reading up on its specifications and creating testbenches to showcase its functionalities. This allows future developers to use these features in their future projects.
- **Improved workflow** by uncovering and solving underlying bugs which allows the team to develop with minimal blockages.

Sonnenglas GmbH | Product Development Engineer (Intern)

Feb 2020 – Sep 2020

- **Implemented various features** into their newest product by developing the software code for the Embedded System using tools such as debuggers (e.g. JTAG, SWD).
- **Aided the team** in designing the Printed Circuit Board (PCB) for the latest product by drawing out the layouts of the required peripherals in EAGLE software to alleviate some work for the lead designer.
- **Supported the marketing team** in launching the product in Singapore by researching on the legal requirements and market trends of the target audience. This allows the team to embark on a smoother launch.

TÜV SÜD PSB | Cybersecurity Test Engineer (Intern)

May 2019 – Aug 2019

- **Educated the company** in expects of the IEC 62443 standard by breaking down the information and creating presentation slides to explain the different concepts of the standard.
- Engaged in a project where a smart plug (TP-Link HS100) is tested against a set of protocols and requirements, and vulnerability evaluation and networking tools (Nessus, Wireshark, etc) were used to **produce results** for the tests.
- **Supported the labs** by setting up new software and equipment which allows the lab engineers to produce tests results in a more efficient manner.

CO-CURRICULAR ACTIVITIES AND VOLUNTEER EXPERIENCES

Rotaract Club (Project HAK) | Operations Leader

Aug 2018 – May 2019

- **Engaged in cultural exchange** activities by learning their language and customs and imparting some of ours to them to build a sense of mutual understanding between differing communities.
- **Improved literacy** by teaching the local students some basic English which allows them to interact with more ease with foreigners.
- **Improved infrastructure** by building a town hall for the village which also promotes cultural exchange at the same time.

ADDITIONAL INFORMATION

Technical Skills: C/C++, Python, Java, Assembly, Verilog, GNU Bash, Socket Programming, Embedded software development

Languages: English (Fluent); Mandarin (Average); German (Elementary)