Nguyễn Hoàng Trung Dũng

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EDUCATION

◆ **VinUniversity**   Sep 2020 - Present
Electrical Engineering

◆ **University of New South Wales, Sydney**   Feb 2019 - Jun 2020
Computer Engineering

◆ **VNU-HCM High School for the Gifted**   Aug 2015 - May 2018

WORK EXPERIENCE

◆ **VinUni-Illinois Smart Health Center**   June 2022 - Oct 2022
Research Assistant

Wastewater Epidemiological Surveillance in Vietnam
- Determined the prevalence of SARS-CoV2 in the selected communities, giving valuable insights into understanding the evolution of antimicrobial resistance in response to human behavior and community practices, and medical practices.
- Designed and built a low-cost and remote-controlled sampler device with Google Spreadsheets as an alternative to ISCO 3700 Waste Water Sampler.

◆ **Vulcan Augmetics**   July 2021 - February 2022
R&D Intern / Technical Support Engineer

R&D:
- Supported the roll-out of new applications (Developed the mobile app with Flutter to read data from sensors via BLE)
- Wrote, tested, and implemented new embedded system code (ESP-NOW communication between mainboard and sensor board)
- Provided support in the form of procedural documentation
- Tested and evaluated new technologies

Tech Support:
- Researched, diagnosed, troubleshot, and identified solutions to resolve software and hardware issues
- Took ownership of customer issues reported and saw problems through to resolution

◆ **VinUniversity**   January 2021 - July 2022
Educational Technology Intern for Vice Provost Office
- Researched and implemented new technologies for educational support.
- Designed and managed University labs and makerspaces.
- Hosted technical workshops on Makerspace Safety Induction, Equipments, Machines, 3D printing and VR.
- Assisted professors in hosting Research seminars.

◆ **MIMOSA TECHNOLOGY CO. LTD.**   Nov 2018 - Feb 2019
Intern

Followed a Rotational Internship Program in 4 departments: Sales/Marketing, Hardware/Production, Quality Control, Software/R&D.
- Co-designed the company's billing system software.
- Held "IoT Technology in Agriculture" conference for farmers in Đơn Dương, Lâm Đồng with over 90% of participants interested in the company's products.
- Assisted in writing sales contracts.
- Assisted production team in soldering, manufacturing electronics, assembling, and packaging while working in the Production Department.

LEADERSHIP EXPERIENCE

◆ **VINMAKER SOCIETY**   Oct 2020 - Present

Founder - President

VinMaker Society is the first engineering society at VinUniversity. We aim for the development of students' skills in engineering, through various creative projects and industry events.

- Provide opportunities for students to learn practical skills in engineering, innovation, and design as well as collaborate on shared ideas and projects.
- Maintain an active community of like-minded 'makers' and providing resources, knowledge, and technology
- Foster an environment where anyone, regardless of their background, can be inspired to turn their ideas into designs, prototypes, and products.
- Partnered with the National Innovation Center, a unit under the Ministry of Planning and Investment, to co-organized the STEAM Festival 2021 to promote STEAM knowledge. Successfully attracted 8,000 attendees, including high-schoolers, university students, and government officials to visit and experience.

◆ **UNSW E-REUSE PROJECT**   Oct 2019 - Mar 2020

Director of Refurbishment Department

Recycling and refurbishing computers, eReuse helps to reduce e-waste in the environment. After salvaging old techs, we then donate them to socio-economically disadvantaged groups in the community.

- Our team successfully restored and donated 25 phones and 7 laptops to local High School students in poverty.
- Held 4 workshops on "How to Diagnose and Repair electronic devices" weekly.

HONORS & AWARDS

VinUniversity Talent Scholarship for 100% tuition	2020
UNSW International Academic Excellence Award (10,000 AUD)	2019
Dr Vincent Lo Asia Scholarship (5,000 AUD per Academic year)	2019
Goethe-Institut Summer Course for the Youth 100% Scholarship, Germany	2016

SKILLS

Embedded system	Microcontrollers (PIC, TI, STM32), Embedded Linux, RTOS, Yocto
Office tools	Word, Excel, Powerpoint, Adobe Photoshop, After Effect, Final Cut pro
Fabrication tools	Simplify3D, Ultimaker Cura, Fusion360, KiCad, EasyEDA
Website Development	HTML, CSS, Javascript, React, Next.js, Chakra UI, Prisma, Strapi
Mobile Development	React Native, Flutter
Programming	C, C++, Javascript, Typescript, Dart, Python, Git