

Manh-Thao NGUYEN

Electromagnetic
PhD Candidate

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Education

Master of Computer Science
2019 – 2021

- University of Information Technology HCMC

Bachelor of Computer Engineering
2014 – 2019

- University of Information Technology HCMC
- GPA: 8.71/10 (Rank No. 1/150)

Awards & Honors

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| 2016 | • The Internation Prize
STM32 NUCLEO Contest 2016 |
| 2017 | • Top 8 ASIA Prize
Renesas' GR Peach Design |
| 2017 | • The Promising Project
TI Innovation Challenge 2017 |
| 2017 | • The Internation Prize
STM32 NUCLEO Contest 2017 |
| 2019 | • Rank No. 1/150 Bachelor Degree
University of Information Technology HCMC |

Skills

Programming Languages

C/C++, Python, Java, NodeJS, C#

RF & PCB Softwares

Ansys HFSS, CST Studio, KiCAD,
Altium Designer, CAM350

Platforms

Linux, Windows,
ARM, STM32Cube, Arduino

Projects

Dual band antenna for LS3 Project

- Antenna modeling with the CubeSat structure
- Layout and fabrication the antenna

RFTThings Design KIT

- Design Terrestrial LoRa Nodes communicating with the LS satellites
- Design and fabrication the CP antenna integrated on the system

Experience

2021 – Present
Researcher

**Laboratoire d'Electronique, Antennes et
Télécommunications – Côte d'Azur University**
Researched in the topic of "Design of Smart and
Integrated Antenna for CubeSat"

2019 – 2021
Lecturer

University of Information Technology HCM
Taught and Researched in Embedded System &
Networking field

Publications

- **"Integrated Circularly Polarized Antenna in a 2U CubeSat"**. International Symposium on Antennas and Propagation and ITNC-USNC-URSI Radio Science Meeting (AP-S/URSI 2024), Jul 2024, Florence, Italy.
- **"Integrated Circularly Polarized S-band Antenna for Space IoT communication"**. International Symposium on Antennas and Propagation and ITNC-USNC-URSI Radio Science Meeting (AP-S/URSI 2024), Jul 2024, Florence, Italy.
- **"Analyse des modes caractéristiques d'un CubeSat 3U pour les communications en VHF"**. 23 ième Journées Nationales Microondes (JNM 2024), Jun 2024, Juan les Pins, France. , pp.4, 2024.
- **"IoT Space Communication Experiment in UHF Frequency with LEO Satellite"**. 2023 IEEE Conference On Antenna Measurements and Applications, IEEE, Nov 2023, Genova, Italy. pp.505-506.
- **"Compact UHF Circularly Polarized Multi-Band Quadrifilar Antenna for CubeSat"**. Sensors 2023, 23, 5361. doi.org/10.3390/s23125361
- **"Characteristic Mode Analysis of a 3U CubeSat for VHF Communications,"** 2023 17th European Conference on Antennas and Propagation, Italy, 2023, pp. 1-4, doi: 10.23919/EuCAP57121.2023.10133404.
- **"Circularly Polarized Antenna with Isoflux pattern for Space IoT applications"**, 2021 IEEE AP-S Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, 2021
- **"Impact of Miniaturization on a UHF tri-fillar antenna for IoT communication from satellite"**, 2020 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, 2020, doi: 10.1109/IEEECONF35879.2020.9329452
- **"Low-profile Dual-Band Circularly Polarized Antenna for ISM Applications"** 2020 IEEE Eighth International Conference on Communications and Electronics (ICCE), 2021, doi: 10.1109/ICCE48956.2021.9352105

Reference

PhD. Le-Huy Trinh

Head of IC Design & Hardware
Computer Engineering Department
University of Information Technology HCMC

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