

# Thong Hoang Trinh

*Hardware Design Engineer*

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## Objectives

- Seeking opportunity to utilize academic knowledge in physics and hardware design at Renesas Design Vietnam.
- Eager to apply skills in PCB layout, circuit simulation, and prototyping to contribute to projects.
- Motivated to learn from experienced engineers and become proficient in industry tools and processes.
- Aiming to develop communication and teamwork abilities in a professional environment and gain valuable experience in embedded systems at a leading company like Renesas.

## Some stuff about me

- Continuous Self-Improvement: Complacency isn't in my dictionary. I believe in continuous self-improvement and strive to be better today than I was yesterday. This drive fuels my personal and professional growth.
- Entrepreneurial Spirit: In 2017, I took a gap year and channeled my entrepreneurial spirit to open my own takeaway cafe. This venture honed my skills in business management, customer service, and problem-solving.
- Resilience and Adaptability: My gap year experience taught me to be resilient in the face of challenges and adaptable to changing circumstances. These traits have served me well in all aspects of life.

## Education

2023 **Bachelor, PHYSICS AND ENGINEERING PHYSICS, VNUHCM - UNIVERSITY OF SCIENCE**, Ho Chi Minh City.

- GPA: 7.5/10, Thesis: 9.5/10, Rank: 2nd in class

2017 **Intermediate professional, NETWORK AND SYSTEM ADMINISTRATION/ADMINISTRATOR**, *Information and Mass Communication Institute of Ho Chi Minh City (IMC)*, Ho Chi Minh City.

- GPA: 6.7

## Relevant Coursework

### ENGINEERING PHYSICS.

- Quantum Mechanics, Electromagnetism, Thermodynamics, Solid State Physics, Optics, Nuclear Physics, Mathematical Physics, Introduction to Electronics, Semiconductor Devices, semiconductor optoelectronics

## SYSTEM ADMINISTRATION.

- Operating Systems, Network Design and Administration, Computer Security, Database Management, Data Structures and Algorithms

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## Technical Skills

Programming language: R, C++, SQL.

Software: Proteus Design Suite, VMware, Matlab, Excel, R Studio, Originlab, Tableau.

Operating system: Windows server, Linux CentOS, Ubuntu.

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## Projects

- Effect of the growth sector boundary on the structure and characteristics of KDP crystals grown from crystal violet and EDTA added mother solution”, “2023
  - Demonstrate the optimal CV(Crystal Violet) concentration for enhancing the second harmonic generation (SHG) performance in KDP crystals
  - The development process of the KCVE (0.001 mol%) single crystal rod is simulated using Matlab.
  - The KCVE samples are analyze by EDX spectra, XRD analysis, and measurements such as UV-Vis spectra, PL spectra, and second harmonic generation (SHG) effects.

([https://github.com/TomALtR/my\\_thesis\\_matlab](https://github.com/TomALtR/my_thesis_matlab))

- ZNO THIN FILM COATING

- Using sputtering, sol-gel dip coating method to coat material.
- Applied XRD, EDX and UV-Vis to analyze the properties of each method.

- STUDENT ATTENDANCE PROGRAM

- Matlab project that apply Knowlegde learn through out the matlab programing subject.
- Import files from excel to find the right data in both ID number and name then import back the new data to excel sheets.

([https://github.com/TomALtR/my\\_matlab\\_first\\_project](https://github.com/TomALtR/my_matlab_first_project))

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## Certifications

2017 TOEIC 600. ETS

2020 Learning How to Learn: Powerful mental tools to help you master tough subjects. Coursera

2022 Ask Questions to make Data-Driven Decisions. Coursera

2022 Analyze Data to Answer Questions. Coursera

2023 Data Analysis with R Programming. Coursera

2023 Google Data Analytics Certificates. Coursera

2023 Technical Support Fundamentals. Coursera

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## Experience

12-2022 **English Teacher**, *Edupia Tutor*.

- Utilized technology to enhance instruction, increase student engagement, and provide real-world learning experiences