CURRICULUMN VITAE

NGUYEN VAN KHANH

Address: No. 117, Lane 409, Kim Ma Street, Ba Dinh District, Hanoi, Vietnam

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OBJECTIVE

Proactive candidate with hands-on research experience seeking a Master's degree in Materials Science (with a planned continuation to Ph.D.).

EDUCATION

Hanoi, Vietnam

HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY (HUST)

Aug 2018

B.S Materials Science and Engineering (In **Advanced Programs** conducted in English)
CPA: 3.09/4 (A for thesis) **Degree classification: Good**
Rank in graduating class: 5/35
Thesis title: "Synthesis of Quaternary Chalcogenides Cu_2ZnSnS_4 by Powder metallurgy"
Advisor: Dr. Bui Duc Long

AWARDS AND HONORS

Hanoi, Vietnam

Research Assistant for the research project "**Investigation of the synthesis of eco-friendly thermoelectric materials for energy conversion**".

2017-2018

(This research is funded by Vietnam National Foundation for Science and Technology Development (NAFOSTED) under **grant number 103.02-2016.18**. Principal Investigator: Dr. Bui Duc Long)

Hanoi, Vietnam

Academic scholarship granted annually by Hanoi University of Science and Technology

2015-2016

RESEARCH EXPERIENCES

Hanoi, Vietnam

Research Assistant for a research project on synthesis of Cu_2ZnSnS_4 (CZTS) which adopts mechanical alloying method to determine if this approach is promising for fabricating CZTS for thermoelectric application at medium temperature range.

2017-2018

Advisor: Dr. Bui Duc Long
Results: **co-authored** two journal articles

WORKING EXPERIENCES

Hanoi, Vietnam

POSCO VIETNAM PROCESSING CENTER CO., LTD.
(Formerly POSCO VIETNAM HOLDINGS CO., LTD.)

Aug, 2019 - Present

Assistant Manager, Technical Service Center (Full-time)
POSCO is the 5th largest steel producer worldwide (2019 – World Steel), the world's most competitive steelmaker for 11 consecutive years (2020 – World Steel Dynamics)

- Handle materials quality issues and technical requests (2019 – 14 cases, 2020 – 27 cases, 2021 – 25 cases) from 15 customers (including 1 Vietnamese automotive maker) in Northern Vietnam, issued 8 documents of quality improvement
- Regularly supervise and streamline quality management in 1 factory of POSCO in Hai Duong, Vietnam
- Annually coordinate the work of standard conformity certification between POSCO and the government authority (QUATEST) for POSCO steels imported to Vietnam
- Regularly implement materials technical training for colleagues of other departments (15 of Sales Department, 6 of Quality Assurance Department) upon request and in 3 annual workshops

Hanoi, Vietnam	**MEIKO ELECTRONICS VIETNAM CO., LTD.** **Technical Engineer, Production Engineering Department (Full-time)**
Oct, 2018 – Aug, 2019	- Collaborated with 3 colleagues of Quality Assurance Department to investigate product defects: identified 8 defects arising from materials - Propose quality improvement plans in terms of materials and evaluate efficiency of them during trial runs: 3 of 4 plans approved and implemented, the highest cost saving calculated at approx. 900 USD monthly - Collaborated with 2 engineers of vendors to initialize a section of a new production line in the factory expansion project

PUBLICATIONS

Bui Duc Long, **Nguyen Van Khanh**, Duong Ngoc Binh & Nguyen Hong Hai (2020) Thermoelectric properties of quaternary chalcogenide Cu_2ZnSnS_4 synthesised by mechanical alloying, Powder Metallurgy, 63:3, 220-226, DOI: 10.1080/00325899.2020.1783103

Long, B. D., **Khanh, N. V.**, Binh, D. N., Thang, L. H., Bang, L. T., & Said, S. B. M. (2019). SYNTHESIS OF Cu2ZnSnS4 BY MECHANICAL ALLOYING METHOD FOR THERMOELECTRIC APPLICATION. *Acta Metallurgica Slovaca*, *25*(3), 174-179. https://doi.org/10.12776/ams.v25i3.1311

QUALIFICATIONS AND SKILLS

Language	**Vietnamese:** native speaker **English:** **IELTS 6.5** (Test date: Jan 08, 2022).
Software	Used VESTA (Visualization for Electronic Structural Analysis) for 3D structure visualization and Origin for XRD pattern and data plotting in the research project "Investigation of the synthesis of eco-friendly thermoelectric materials for energy conversion" Experienced in Python and MATLAB Well versed in Microsoft Office suite and Adobe Photoshop CC
Equipment	Operated SPS (Spark Plasma Sintering) system for sintering materials and heat-treatment furnace in the research project "Investigation of the synthesis of eco-friendly thermoelectric materials for energy conversion" Experienced in materials characterization including X-ray Diffractometer, Scanning Electron Microscopy and Optical Microscopy

EXTRACURRICULAR ACTIVITIES

Nagaoka, Japan **Nov, 2017**	Certificate of achievement "Japan-Asia Youth Exchange program in Science" administered by Japan Science and Technology Agency, held at Nagaoka University of Technology, Japan
Hanoi, Vietnam **Jul, 2015**	Certificate of dedicated volunteer in "Green Summer" volunteer campaign (2015) – the Summer Youth Volunteer Campaign administered annually by Hanoi University of Science and Technology (Less than 5% volunteers received)

REFERENCES

Department of Non-ferrous Metals and Composite – School of Materials Science and Engineering (HUST)
Advisor: **Dr. Bui Duc Long**
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Email: long.buiduc@hust.edu.vn

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