

# Nhut Nguyen, Ph.D.

C++ Software Engineer | Writer



+45 XXXX XXXX

[nhut@nhutnguyen.com](mailto:nhut@nhutnguyen.com)

<https://github.com/ntnhut>

<https://www.linkedin.com/in/ntnhut>

## WORK EXPERIENCE

DEC 2022 – PRESENT (1 MO)

*Alipes ApS*

### C++ Software Engineer

Implementing high performance trading algorithms.

DEC 2021 – NOV 2022 (1 YR)

*CLAAS E-Systems Denmark*

### C++ Software Developer

Implemented base software for smart cameras in agricultural machinery.

AUG 2018 – SEP 2021 (3 YRS 1 MO)

*Synopsys Denmark ApS*

### Senior R&D Engineer

Improved the robustness and the performance of the optimization engines in Place and Route system IC Compiler II.

FEB 2016 – JULY 2018 (2 YRS 6 MOS)

*Teklatech A/S*

### Software Development Engineer

Modeled the Power Delivery Network behaviors in FloorDirector, the industry-leading tool for reducing peak current demand and dynamic voltage drop in ASIC designs.

AUG 2012 – DEC 2015 (3 YRS 5 MOS)

*Technical University of Denmark*

### Employed Ph.D. Student

Provided an explicit construction for asymptotically Error-Correcting Codes using the theory of Drinfeld modular curves in Algebraic Geometry and Number Theory.

JAN 2005 – JUL 2012 (7 YRS 7 MOS)

*Vietnam National University HCM – University of Science*

### Lecturer

Designed, gave lectures and supervised students on the courses of Algebra Computer Systems, Cryptography, Coding Theory, Arithmetics.

MAY 2011 – SEP 2011 (5 MOS)

*eSilicon Vietnam*

### Software Developer

Developed an automated system that generated metal connections for test chips. Designed 5 practical projects for students to work for the company as interns.

## SOFTWARE DEVELOPMENT SKILLS

ARCHITECT/TECHNIQUE	Agile Software Development Object-Oriented Programming Test-Driven Development Multithreaded Programming Distributed Systems Embedded Systems
LANGUAGES	C++, Tcl, C#, Python Yocto
TOOLS	VS Code, Eclipse, Jira, Linux Git, GitHub, Perforce CI/CD, MS Azure
COMMUNICATION	Teams, Slack Documentation, Code Review

## EDUCATION

2012 – 2015	<b>Doctor of Philosophy</b> APPLIED MATHEMATICS AND COMPUTER SCIENCE Thesis: Asymptotically Good Codes <i>Technical University of Denmark</i>
2005 – 2009	<b>Master of Science</b> ALGEBRA AND NUMBER THEORY Thesis: Group-based Cryptography <i>VNUHCM – University of Science</i>
2000 – 2004	<b>Bachelor of Science</b> MATHEMATICS AND COMPUTER SCIENCE Thesis: Face Detection <i>VNUHCM – University of Science</i>

## INTERESTS

PROBLEM SOLVING	Solve LeetCode Challenges
WRITING	Technical Articles, Personal Blogs
SPORTS	Football, Badminton, Swimming
OTHERS	Learn New Skills Everyday

## LANGUAGES

ENGLISH	Fluent
DANISH	Limited working proficiency
VIETNAMESE	Native

