# Nhut Nguyen, Ph.D.

C++ Software Engineer

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nhut@nhutnguyen.com https://github.com/ntnhut

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

## WORK EXPERIENCE

DEC 2022 - PRESENT (I MO)

Alipes ApS

# Research Infrastructure Engineer

Implementing high performance trading algorithms.

DEC 202I - NOV 2022 (I YR)

CLAAS E-Systems Denmark

## C++ Software Developer

Implemented the base software for smart cameras in agricultural machinery.

AUG 2018 - SEP 2021 (3 YRS I 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 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 20II - SEP 20II (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

Embedded Systems

PROGRAMMING C++, Tcl, C#, Python

Yocto

TOOLS VS Code, Eclipse, Jira, Linux

Git, GitHub, Perforce Jenkins, MS Azure

COMMUNICATION Teams, Slack

Documentation, Code Review

## **EDUCATION**

2012 – 2015 **Doctor of Philosophy** 

APPLIED MATHEMATICS AND COMPUTER SCIENCE

Thesis: Asymptotically Good Codes Technical University of Denmark

**2005 – 2009 Master of Science** 

ALGEBRA AND NUMBER THEORY
Thesis: Group-based Cryptography
VNUHCM – University of Science

2000 - 2004 Bachelor of Science

MATHEMATICS AND COMPUTER SCIENCE

Thesis: Face Detection

VNUHCM – University of Science

## **INTERESTS**

PROBLEM SOLVING Solve LeetCoding Challenges

WRITING Technical Articles, Personal Blogs sports Football, Badminton, Swimming others Learn New Skills Everyday

# **LANGUAGES**

ENGLISH Fluent

DANISH Limited working proficiency

VIETNAMESE Native