



Anh Khoa Nguyen

Electrical Engineering Information Technology Computer Science - 6 Years of Experience



[Redacted Phone Number]



[Redacted Email Address]



62 Phan Van Tri, Dong Da, Ha Noi, Vietnam

From I wrote the master thesis "Analyzing and development of a command set extension for data-intensive DNA sequencing algorithms". My achievement is that accelerated performance of a processor (Tensilica LX5) for a processing DNA sequencing application up to 100 times. Since then I have great motivation and experience to Hard- & Software Designs and I look forward to doing R&D engineer. I have worked in the field IoT as an R & D IoT engineer and i'm interested in IoT products. Currently i was working 3 years as technical engineer in area automatic monitoring environment and have a lot of experiences also motivation for this work.

EDUCATION

- 10/2007
06/2016 Masters - Technical University of Dresden, Germany(TU9 - Excellence in Engineering and the Natural Sciences - Made in Germany)
Electrical Engineering - Information Technology
□ Master of Sience – Electrical Engineering
□ Major: Information Technology, Good
- 09/2006
06/2007 Others - University of Leipzig
University, Preparation Course
□ Technology Courses
□ Grade: Good
- 09/2001
06/2004 High school - Chu Van An Specialized High School (Hanoi, Vietnam)
Specialized High School of Natural Sciences and Mathematics
Main emphazing: Physics (Grade: Excellent)

WORK HISTORY

- 03/2010
09/2010 R.Stahl (Waldenburg Germany)
Student Assistant in Electrical Production
- R. Stahl (Waldenburg, Baden-Württemberg)
- Making case for electrical controlling cabinet (Mechanical working)
- Wiring control cabinets from the modular system (Electrical installation)
- Update software for controlling cabinets
- 10/2012
03/2013 VTC (Vietnam Television Corporation, Hanoi-Vietnam)

BASIC INFORMATION

- Birthday 14/06/1986
- Nationality Vietnamese
- Marital Status Married
- Gender Male

LANGUAGES

- Vietnamese
- English
- German

SKILLS

- Java
- Python
- Object Oriented Programming
- Hardware Design
- C#
- Matlab
- German Native
- Simulink
- Chip Design
- Hardware Architecture
- Embbeded System
- IoT Development
- AutoCAD
- Network Management System
- C Programming Language
- Electrical Installation
- Micro Processor
- German Translation
- Chip Architecture
- IT Hardware
- Embedded Devices
- Embedded System
-
- Monitoring System

**Digital Terrestrial Television,
Telecommunication and Information
Technology internship**

- Studying and development of the digital television system
- Studying and design emphasizing on new set-top box for digital television

09/2013
03/2014

Netpoleon

**Network and Security Information
Internship**

- Project: Design, Rebuilding and Security for District Tax Department Network
- Project: Synchronizing Design and security for Computer Network of National Hydrometeorological Center

12/2014
06/2015

*INSTITUTE OF ELECTRICAL POWER
ENGINEERING (ETI) TU Dresden*

Student Research

Student Research Project in major of Electromagnetic Compatibility

- Topic: Investigation of the deterioration of shielding due to light waveguides
- Explores waveguides and fiber optic cables
- Working with measurement systems supported by computer (programming measurement application with Python (measurement instruments of Rohde & Schwarz, national instruments usb gpi) planned, built measurement system and measured RF objects.
- Analyzing and comparison of outputs with the previous theoretical calculation
- Grade: 2,0/1 (very good)

12/2015
07/2016

*Vodafone Chair Mobile Communication
Systems*

R&D Engineering

Master Thesis in major of Mobile Information Systems

Vodafone Chair-Mobile Communication Systems (TU-Dresden, Institute of Information and Technology)

- Topic: Analyzing and Development of a command set extension for data-intensive DNA sequencing algorithms (Acceleration of the Tensilica processor)
- Implementing the DNA sequencing application in C programming language.
- Acceleration of the execution of the processor (Tensilica LX5) for application through architectural adaptation for

Environmental
Technology

- Gas Analyser
- Ambient Air Monitoring
- Node Express

REFERENCES

NGUYỄN ANH KHOA

**R&D Engineer - Vodafone Chair-Mobile
Communication Systems**



application (adding internal memory).

- Grade: 2,5/1 (good)

05/2017
10/2017

GIZ(Deutsche Gesellschaft für Internationale Zusammenarbeit)

Technical Consultant

- Translation as well as upon request Documents, presentations, training documents, Maintenance documents and other documents and documents Interpreting as well as arranging. Training units, trainings and other events And meeting German in Vietnamese and vice versa (spoken and written)
- Active professional, procedural and logistical cooperation In the implementation of action field activities in the team As well as with partners and / or companies as well as third parties (eg Organization and documentation of events and events Workflows including workshop management and Work safety as well as use and maintenance Of the technology available in LILAMA 2)
- Cooperation between practical and theoretical Training units for trainees (organization, Translation, documentation as well as professional input incl. Follow - up and implementation of own Training elements and / or evaluation of Third-party training arrangements by arrangement)
- Collaboration of practical and theoretical trainings For teachers (organization, translation, documentation As well as professional input incl Execution of own training elements or evaluation of Training elements of third parties by arrangement)
- Collaborate with colleagues during development Of reports and background searches for various Relevant topics.

03/2018
11/2019

CMC Corporation Vietnam

R&D Engineer IoT

- Study IoT.
- Build IoT System, work on IoT Projects(Smart Home, Distributed Smart Camera System).
- Development of IoT products(Smart Camera).
- IoT Strategic RoadMap of Vietnam projects.
- Module GPS for fishing boat.
- Design, Solution, Setting, Programming Network Management Systems(Hardware & Software) for Devices of Telecom System in Oil

platform.

- Design, Solution, Setting, Programming the Meteorology Automatic Weather Station (IoT Trend).
- Research and manufacture Data logger for Weather Station, integrated LPWAN technology, use Satellite Communication.
- Design, Built and Programming application of Telecommunication Network Management Systems via Satellite for Oil platform.
- Programming, Testing Software for Network management control Satellite System (11m, 9m, 6.3m, 2.7m).

12/2019
Current

MCZ Umwelttechnik GmbH Germany - Office
Vietnam

R&D Engineer

- Programming Program and Application for Gas Collectors, Calibration Systems for Gas Analyzers, Inspection Stations and Test Benches for automotive industrie, Zero and Process Gas treatment, Gas Compounding Systems, Gas Analyzers for Emission Monitoring, Water Quality Analyzers, Gaschromatographs for Ethylene and Ethylenoxide, Monitoring Stations/Mobile Stations for ambient air and water quality monitoring.
- Installation, calibration and maintenance of automatic air & water quality monitoring systems.
- Customer Training.
- Software development for automatic monitoring systems.