

Ta Luc Gia Hoang

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INTRODUCTION

I consider myself have strong passion in embedded system and image processing.

I would love to work for an organization applying image processing to data collection and surveillance camera or involving precision agriculture field thus I could contribute my enthusiasm, satisfy customer demands and effort to innovate the company where I work.

I want to work somewhere where I will have opportunities to develop my skills, take on interesting projects, and work with people I can really learn from.

EDUCATION

2012 – 2017	BACH KHOA UNIVERSITY CITY (BKU) - VIETNAM NATIONAL UNIVERSITY – HO CHI MINH CITY Faculty of Electrical & Electronics Engineering Major Electronics – Telecommunication GPA: 7.21
4/2016	IIG VIETNAM TOEIC Certificate – Total score: 695

TECHNICAL SKILLS

- Strong in Embedded C/C++ coding
- Good Knowledge & Work Experience in Image Processing
- Familiar with OpenCV: Image Transformations, Background Subtraction, Object Detection, Tracking, Machine Learning
- Minicomputer: Raspberry Pi, BeagleBone Black
- MCU: Tiva C Series TM4C123G, MSP430G2553, Arduino UNO R3, 8051, PIC16F87A
- OS: Ubuntu/Linux, Debian/Linux, Windows
- Embedded software building, debugging, testing
- Be able to read Hardware Manual
- Good Knowledge in common communication protocols: UART, SPI, I2C, TCP, UDP
- Basic Knowledge in using APIs: V4L2 , FreeRTOS, Basler Pylon
- Simulation software: Proteus, MATLAB, CST Studio
- Socket Programming
- Basic in Assembly, Java , Python

ACADEMIC PROJECTS

- **2048 Game** : console application program in C++
- **Horn Antenna** : design and simulate using CST Studio
- **Digital Clock** : using LCD16x2 and 8051 program in Assembly
- **Simple Hi-Fi Audio Amplifier** : design and implement circuit
- **Mini Calculator** : using LCD16x2 , 4x4 Keypad and Tiva C Series TM4C123G
- **Simple Digital Multi Meter**: Design and develop simple measurement device using PIC16F87A
- **Streaming video** : studying a minicomputer – BeagleBone Black and create a sample application for it
- **People Counting Camera**: Develop an application using OpenCV for processing and counting people
- **IP Camera** : using a Raspberry Pi grabs images from a webcam and transmit to a PC, both of them connected to a LAN
- **Wireless sensor networks in agriculture (Graduation Thesis)** : Collect data (humidity, temperature, light intensity) and send to center node by RF; design and develop both hardware and software using Raspberry Pi, MSP430 MCU, RF modules and sensors

EXPERIENCE

Internship

June 13, 2016 – August 19, 2016

Vigilant Video

- Investigate and set up working environment for Raspberry Pi
- Investigate how to use Basler Camera
- Self-study some basic video streaming concept: color space, image compression, Socket programming, TCP/UDP, V4L2 API
- Develop an IP Camera using Raspberry and Basler Camera to grab and stream video to connected PC

Embedded Software Engineer

March 1, 2017 – Present

Renesas Design Vietnam Co., Ltd.

- Building customized Linux Image with Yocto
- Testing image processing chip, video performance
- Creating demo for Image Processing API (similar to OpenCV API): People detection
- Testing, Debugging, Porting
- Developing Use Case Test as Customer Requirement
- Mainly working on INTEGRITY RTOS and Linux
- Linux kernel driver
- Creating automation test script using CANTATA software
- Reporting issue, creating notes and guidelines clearly for teammate

SOCIAL ACTIVITIES

8/2014 - 1/2018	<i>Volunteer Teacher at Giac Quang Pagoda</i> - Teaching children who are poor or live in slums, basic Mathematics and Literatures, communication skills and make them self-confident.
7/2015	<i>Green Summer Volunteer Campaign 2015</i>
13/1/2014	<i>Blood Donation</i>
6/2013	<i>National University Entrance Exam Support Campaign 2013</i>

PERSONAL PROFILE

Skills:	Able to read English documents Strong analysis skill and ability to work independently Capacity for managing time and working under high pressure and take responsibilities Smart-worker and good attitude. Presentation Teamwork
Hobbies:	Reading, watching, biking, travelling, playing guitar and games