

# Le Quang Vinh

Email:

vinhlq@hotmail.com

Phone:

+84 (0)97 832 3459

## Education

**2003 - 2007**      **B.E.**, Hanoi University of Industry; Major: Electronics Engineering

## Experience

**2011 - 2018 Minh Ha technologies:** Work as hardware, software, firmware developer & PCB design:

- BLDC motor controller board for air-conditioner compressor
- Vehicle GPS tracker according to the requirements of QCVN 31:2011 and QCVN 31:2014.
- Motorcycle smartkey system, that is using bluetooth low energy technology.
- Active RFID for garage door access control system.
- Zigbee smart home control system:
  - IoT gateway to control zigbee device over internet:
    - \* Build on raspberry pi compute module (CM3)
    - \* Using zigbee stack provided by silabs
  - Integration with aws iot server to control & manage zigbee device over internet.
  - Develop zigbee device firmware: wallswitch, door sensor, occupancy sensor, temperature & humidity sensor.
  - Smart home device using bluetooth mesh technology.
    - \* Develop ble mesh device firmware on the same zigbee hardware: wallswitch, occupancy sensor, temperature & humidity sensor.

**2019 - July 2021 Phenikaa smart device:** Leader of smart home firmware developer team:

- Develop smart home zigbee device firmware( PVT phase)
- Design production in-line test system firmware

**August 2021 - December 2021 Phenikaa smart lighting:** Leader of smart lighting firmware team:

- Smart light bulb:
  - Light bulb with remote control.
  - Incandescent light bulb wifi.
  - Zigbee light bulb:
    - \* IoT gateway to control zigbee light bulb over internet.
    - \* Incandescent light bulb zigbee.
    - \* Color light bulb zigbee.
  - Bluetooth mesh light bulb:
    - \* Incandescent light bulb.
    - \* Color light bulb.

## Professional specialty

- Language:

- English is OK( Reading, writing and listening well but struggle while speaking)
- Computer language:
  - Familiar with OOP, Design Pattern, C/C++, make, cmake, Linux programming, python, javascript( nodejs)
- Software Tools:
  - Linux/gcc/gdb tool chains, make, cmake, elipse ide, jet brain clion ide, vscode, silabs simplicity studio, TI code composer studio, iar ide.
- Equipments:
  - Digital Scope, Power meter equipments operation, Soldering iron, rework.

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**vinhlq@hotmail.com** • +84 (0)97 832 3459 • 36 years old

address - Thanh Tri, Hanoi

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