HA NGUYEN DIEP

01/01/1995 - Male
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Education

Da Nang University of Science and Technology
Faculty of Center of Excellence
Major in: Embedded System
GPA: 3.28
Date of Graduation: August 2018

Skills

Ability to use different programming languages: C/C++, Python, C# (Window application form) and Verilog.

Ability to use some softwares:

- Simulating/Designing electric circuit: Altium Designer, Protues
- Hardware discription of digital circuits and simulation: ModelSim, Quatus
- Others: Matlab, Solidwork, Microsoft Visual Studio

Basic knowledge on: Electric circuits, Electronics, Microcontroller (AVR, MSP430, ARM), Microprocessors, Linux Driver, Digital Circuits and Digital Systems, Microprocessor System Design, Computer Architecture, Feedback and Control Theory, Digital Signal Processing, Machine Learning.

Having accomplished courses: Leadership, Project Management, Technical Writing and Communication Skills.

Ability to use English in both work and communication. Certificate of IELTs band 6.0.

Work Experience

Intership at eSilicon Company in Da Nang City, Vietnam *January 2018 – May 2018*

Design a high speed Delay looked loop (DLL) in TSMC 28nm: an electronic circuit is used to synchronize an output signal by generating necessary delay for clock signal.

- Work in a team of 2 members
- Study and improve the previous DLL version in both circuit and layout.

Research Experience

Smart Lighting System: *December 2014 – April 2015*

Using microcontroller MSP430G2553 with some sensors to control automatically the lighting system.

- Work in a team of 3 members.
- The device can turn on/off the lights as detecting movements in a certain area.

Air Pollution Monitoring System: *November 2015 – May 2016*

Collecting information of surroundings including temperature, dust, SOx, COx, calculate AQI (an air quality index) to show how polluted the air currently is.

- Work in a team of 5 members.
- The device can connect to other devices at different places to draw spectrum map on web which displays the AQI index.
- Give warning about levels of pollution on both web and applications on smartphone.

Predicted water quality through fish's response using machine learning: *January 2017 – May 2017*

Analyzing, identifying, recognizing fish's habit in water environment to predict the quality of water (normal or abnormal).

- Work in team of 4 members.
- Work primarily on Matlab with given data about movements of fish in both normal and abnomal water enviroment.
- Extracting attributions, training and comparing the obtained results at both methods: Artificial Neural Network and Support Vector Machine.