

# DAN-NGUYEN LAM 《林民源》

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## WORK EXPERIENCE

### RESEARCH ASSISTANCE

7/2020 – 9-2022

at MMNET Lab (Multimedia Mobile Networks Lab, CSIE, NCKU, Taiwan)

- Cellular Vehicle Communication (C-V2X), LTE (4G) and NR (5G) Resource Allocation.

### BACKEND DEVELOPER

6/2018 – 7/2019

at [TMA SOLUTIONS](#) (Vietnam IT Company- Outsourcing Company)

- Products: OMNIVISTA CIRRUS, OMNIVISTA 2500 NMS, and OMNI MSP.
- Required Skills: **Java** (Spring Framework), **JMX Active-MQ**, **REST APIs**, **Docker**, **Mongodb**, **Quartz Framework**, **Parser Dashboard**, **GIT**, **Python**, **Agile**, **Scrum**, **JIRA**, **Confluence**, etc.
- Product public at [AL-ENTREPRISE PRODUCTS](#): Involved in both *OmniVista 2500 NMS* and *OmniVista Cirrus*.

### ANDROID INTERN

1/2017 – 5/2017

at [BEESIGHT SOFT](#) (Vietnam IT company – Outsourcing Web and Mobile Application)

- Required Skills: **Java**, **Android**, **GIT**, **XML**.

## PROJECTS

### NR-V2X PLATOONING RESOURCE ALLOCATION

9/2020-1/2022

- Resource allocation for multi-platoon communications.
- Required Skills: **MATLAB**, **C-V2X**, **NR-V2X**.

### ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, IMAGE PROCESSING AND DEEP LEARNING

9/2020-1/2022

- Image Processing, Image Smoothing, Edge Detection, Transform, Contour, Camera Calibration, Augmented Reality, Stereo Disparity Map.
- Cifar10, Pytorch, VGG16, Resnet50.
- Required Skills: **Python**, **Math**, etc.

### ANALYZING THE SOURCE CODE AND DEBUG THE IoT EMULATOR: QOMET/DUMMYNET(THESIS)

6/2017 – 1/2018

- Description: **Analysing** the **IoT emulator** source code, **building new version of Emulator** to apply for the project of University.
- Required Skills: **C**, **Python**, **OpenStack**, **Docker**, etc.

### EVALUATE ANDROID KERNEL SECURITY BY ANALYSING A SOURCE CODE – UIT ESSAY

1/2017 – 6/2017

- Description: **Analysing** android kernel source code, **comparing** two kernel source code, looking for functions that are risky when using this kernel on device.
- Required Skills: **C**, **Shell Script**, **Awk**, **Android Kernel**, etc.

### WEATHER PREDICTION APP - COURSE PROJECT

2/2016 – 6/2016

- Description: The Application that helps Users view the weather directly on their smartphone.
- Required Skills: **Java android**, **AsyncTask**, **Json**, **Gson**, etc.

## SKILLS

### Computer Skills:

- Databases: **SQL**, **NoSQL**.
- Operating Systems: **Window**, **Linux**.
- Networking (CCNA): **Routing**, **Switching**.
- Programming Languages: **C/C++**, **JAVA**, **PYTHON**, **JAVASCRIPT**, **MATLAB**.
- Telecommunication: **4G**, **5G**, **C-V2X**, **NR-V2X**, **Platooning** and **Side-link Communication**.

**Languages:** *Vietnamese, English, Basic Chinese.*

## EDUCATION

### Master of Computer Science

at National Cheng Kung University (**NCKU**) - Taiwan

9/2020 – 9/2022

- Dept. Computer Science and Information Engineering (CSIE), NCKU, Taiwan.
- Thesis: Resource Allocation for Multi-Platoon Communication based on the Graph Theory Approach.
- Advisor: [Chung-Ming Huang](#)

### Bachelor of Engineering in Computer Networks and Communications

at Vietnam National University HCMC -University of Information Technology (VNUHCM-UIT)

8/2013 – 6/2018

- Dep. Computer Networks and Communications.
- Thesis: Analyze the source code and debug the IoT emulator: QOMET/Dummynet.
- Advisor: [Quan Le-Trung](#)