

# DAN-NGUYEN LAM 《林民源》

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## WORK EXPERIENCE

### RESEARCH ASSISTANT 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, *AsynTask*, *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) 國立成功大學 - Taiwan

9/2020 – 9/2022

- Dept. Computer Science and Information Engineering (CSIE) (國立成功大學資訊工程學系), 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](#)