

## DUONG TUNG LAM

Master of Electrical & Computer Engineering, Seoul National University, South Korea

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Communication Languages: Vietnamese (Native), English (C1)



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## EDUCATION

### Seoul National University (Seoul, South Korea)

Master of Electrical & Computer Engineering

Mar 2020 - Feb 2023

### Hanoi University of Science and Technology (Hanoi, Vietnam)

(Advanced Program in cooperation with San Jose University, USA)

Bachelor of Electronics and Telecommunications

Aug 2014 - Jul 2019

## EXPERIENCE

### PIDL (SNU Laboratory)

Computer Vision System Researcher (Self-conducted)

Seoul, South Korea

Mar 2020 - Mar 2023

#### *Smart Driving Assistant Device: Alert close vehicles and Traffic measurement*

May 2020 - Dec 2020

[Demo](#)

An edge device assistant: alert drivers when there is close contact and update traffic status along the ride to a global service.

#### *Edge Management Website for Data collection and Deployment in Smart City*

Nov 2020 - Feb 2021

Website interface for collecting data, models deployment and model testing (in Data life cycle)

#### *Dynamic Priority Seat Allocation and Bus Interval Management in Smart Public Transport*

Mar 2021 - July 2021

[Demo](#)

A multi-camera system for measuring the number of passengers and capture passengers' attributes for allocating seats and bus intervals. The allocation will be autonomously assigned based on an entered passenger attributes (elder, teenager, injured person,...)

#### *Domain-aware Active Learning for Real-time Object Detection in Smart City*

July 2021 - Jan 2022

A data cleansing method for general CNN model improvement in Smart City scale under various change of environment (lights, camera angles,...).

#### *Parking Reservation Management System*

Jan 2022 - Dec 2022

[Demo](#)

A management system among multi car parking lots in Smart City: detect occupied/available/illegal slots and perform reservation management via online traffic information and distances.

### ASI Co.

Head Project

Hanoi, Vietnam

Feb 2022 - June 2022

#### *Smart City Traffic Management Project*

Feb 2022 - June 2022

A management project aim to provide various function capturing traffic information via multiple cameras such as: autonomous illegal driving detection, license plates recognition and traffic density estimation. These information are then analyzed for government purposes such as tracking and examination.

<b>TinhVan Co.</b> <i>Computer Vision - AI Engineer</i>	<b>Hanoi, Vietnam</b> Aug 2019 - Feb 2020
<i>Web Service for Employee Recognition Management</i>	<i>Aug 2019 - Dec 2019</i>
<i>Realtime Facial Status Evaluation from Cameras</i>	<i>Dec 2019 - Feb 2020</i>
<b>Vinsmart - VP9</b> <i>Computer Vision - AI Engineer</i>	<b>Hanoi, Vietnam</b> Dec 2018 - Jun 2019
<i>Employee Tracking &amp; Recognition From High Camera View</i>	<i>Dec 2018 - Apr 2019</i>
<i>Abnormal Activity Recognition in Public Sector</i>	<i>Apr 2019 - Jun 2019</i>
<b>AICS Lab</b> <i>Undergraduate Researcher</i>	<b>Hanoi, Vietnam</b> Jan 2017 - Jul 2019
<i>Zebra-fish ECG signal classification:</i> collaborate with Hero Lab from UCI (University of California, Irvine), USA	<i>Sept 2018 - Dec 2018</i>
<i>Medical signal classification:</i> collaborate with NUS(National University of Singapore), Singapore	<i>Dec 2018 - Apr 2019</i>

## ACHIVEMENTS

<b>Department Award: Excellent Master Thesis</b>	2023
<b><a href="#">Top 4 Oral Paper in ECCV Workshop</a></b>	2022
<b>Undergraduate Department Award: First Prize for Best Project Contest</b>	2016
<b>Hanoi Talented Physics in Highschool Award: Second Prize</b>	2014

## RESEARCH & WORK INTEREST

Computer Vision applications, ML Cycle, Edge Deployment

## TECHNICAL SKILLS

### Language Code:

Advance: Python (3+ years)

Basic: C/C++, Java/TypeScript, Bash

### Tools, Frameworks:

Advance: Tensorflow 1&2 (3+ years), Pytorch (3+ years), TensorRT (2+ years), DeepStream (2+ years)

Basic: Django/Angular, ClipperAI, Horovod, Ray, Docker, Kafka

### Database:

SQL Databases, MongoDB, Neo4j, Redis