

PHAM QUANG HIEU

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WORK EXPERIENCE

Staff Software Engineer

10/2025 – present

General Motors — *Sunnyvale, CA*

- Tech lead in the Embodied AI team.
- Responsible for the detection-tracking module for both onboard and offboard models.

Staff Software Engineer

07/2021 – 09/2025

Woven by Toyota — *Palo Alto, CA*

- TLM in the Vehicle Perception team, managed a team of 10+ engineers.
- *Foundation Sensor Model*: The end-to-end multi-task, multi-modality online perception model at Woven. Responsible for detection-tracking, sensor fusion, and foundation training.
- *ML Edge Compute*: ML model deployment to the edge platform. Owned and set up the pipeline from model conversion, quantization, to validation.

Software Engineer

05/2021 – 07/2021

Lyft Level 5 — *Palo Alto, CA*

- Lyft Level 5 was acquired by Woven by Toyota in July 2021.

Research Intern

08/2020 – 10/2020

Meta Reality Labs — *Singapore*

- High-fidelity 3D eye segmentation using implicit neural representations.

Software Engineering Intern

02/2020 – 06/2020

Lyft Level 5 — *Palo Alto, CA*

- Lidar-based detection model for large vehicles.

PUBLICATIONS

[Google Scholar](#)

A*3D: An Autonomous Driving Dataset in Challenging Environment

ICRA 2020

Quang-Hieu Pham, Pierre Sevestre, Ramanpreet Singh Pahwa, Huijing Zhan, Chun Ho Pang, Yuda Chen, Armin Mustafa, Vijay Chandrasekhar, and Jie Lin

JSIS3D: Joint Semantic-Instance Segmentation of 3D Point Clouds

CVPR 2019

Quang-Hieu Pham, Duc Thanh Nguyen, Binh-Son Hua, Gemma Roig, and Sai-Kit Yeung

Real-time Progressive 3D Semantic Segmentation for Indoor Scenes

WACV 2019

Quang-Hieu Pham, Binh-Son Hua, Duc Thanh Nguyen, and Sai-Kit Yeung

EDUCATION

Singapore University of Technology and Design (SUTD)

2016 – 2020

Ph.D. in Computer Science

- SUTD President's Graduate Fellowship

Vietnam National University - Ho Chi Minh City University of Science

2010 – 2014

B.S. in Computer Science

- Summa cum laude

SKILLS

- **Programming:** C/C++, Python, CUDA, PyTorch