

LANGUAGES & TECHNOLOGIES

- Languages: Vietnamese (Native), English (Fluent), French (Fluent)
- Knowledge: Data Structures, Algorithms, OOP, Machine Learning (Deep Learning, Reinforcement Learning), Computer vision (2D/ 3D detection, Tracking, Classification, Segmentation, Depth estimation 3D reconstruction, Point Cloud)
- Programming languages: C/C++, Python, CUDA, SQL, Bash, HTML, CSS, JS
- Frameworks: Keras/ TensorFlow, Pytorch, OpenCV, NumPy, SciPy, Pandas, Scikit-learn, Matplotlib, Flask, ONNX, TensorRT, Qt
- Embedding: ROS (Robot Operating System), PCL (Point Cloud Library), ONNX, TensorRT, Raspberry pi 3, Nvidia Jetson tx2, AGX Xavier
- Tools: vim, Visual Studio, git, MySQL, SQLite, MongoDB, Doxygen, L^AT_EX, Inkscape, Zotero

WORK EXPERIENCE

Ph.D student	IRIT & Cerema	Nov 2019 - Now
Computer Vision & Machine Learning		
<ul style="list-style-type: none">• Currently i'm working on a project about environment perception (3D object detection and semantic segmentation on point cloud from LiDAR sensor) for self-driving cars.		
Research intern	LVIC Lab/ CEA List	Feb - Aug 2019
Computer Vision & Machine Learning		
<ul style="list-style-type: none">• - Targeted TensorRT optimization for embedded platforms Nvidia Jetson tx2, AGX Xavier.• - Fine detection and recognition of large-scale products using the 3D sensor Realsense d435.• YOLOv3_tensorRT (private code), reconnaissance_grocery_product (private code) & private report		
Research intern	MIA Lab/ Uni. La Rochelle	Apr - Sep 2018
Computer Vision & Machine Learning		
<ul style="list-style-type: none">• - Object Detection, Object Recognition, Transfert learning.• - Reimplementing YOLOv3 in tensorflow.• - Raspberry PI 3/ TurtleBot 3.• YOLOv3 code & report available upon request.		

PUBLICATIONS

Peer-reviewed conf. publ.

- [C-1] "Sparse LiDAR and Stereo Fusion (SLS-Fusion) for Depth Estimation and 3D Object Detection" - 11th International Conference on Pattern Recognition Systems (ICPRS 2021)
- **Nguyen Anh Minh MAI**, Pierre Duthon, Louahdi Khoudour, Alain Crouzil, Sergio A. Velastin
 - Accepted for publication and oral presentation

EDUCATION

Toulouse, France	Paul Sabatier University (Toulouse III)	2019 - Now
<ul style="list-style-type: none">• Ph.D student in Computer Science & Telecommunications		
Bourges, France	INSA CVL	2014 - 2019
<ul style="list-style-type: none">• Engineer's Degrees (Diplôme d'Ingénieur) in Industrial Informatics, November 2019.		

ADDITIONAL EXPERIENCE & AWARDS

Certificates & Awards

- Ph.D Scholarship (2019) for an outstanding candidate from the Cerema Research Center, France.
- Deep learning specifications Certificates (2017), Andrew Ng, Coursera.
- Machine learning Certificates (2016), Andrew Ng, Coursera.
- 2nd prize in mathematics (2014) at the provincial competition of the best high school students, Hue, Vietnam.
- 2nd prize in mathematics (2011) at the provincial competition of the best college students, Hue, Vietnam.
- 3rd prize in mathematics (2010) on pocket computer at the provincial competition of the best college students, Hue, Vietnam.

Summer School

- Document Analysis and Recognition (Jul 2018) at La Rochelle University, La Rochelle, France.

Teaching

- TP (travaux pratiques) algorithm Python (2021) at Toulouse Paul Sabatier University, Toulouse, France.