





## LANGUAGES & SKILLS


<b>Languages</b>	Vietnamese (Native), English (Fluent), French (Fluent)
<b>Knowledge</b>	Data Structures, Algorithms, OOP, Machine Learning (Deep Learning, Reinforcement Learning), Computer Vision (2D/ 3D detection, Tracking, Classification, Segmentation, Depth Estimation, 3D Reconstruction & Point Cloud (LiDAR))
<b>Prog. Languages</b>	Python, C/C++, CUDA, SQL, Bash, HTML, CSS, JS
<b>Frameworks</b>	Pytorch, Keras/ TensorFlow, OpenCV, OpenCL, OpenGL, NumPy, SciPy, Pandas, Scikit-learn, Matplotlib, Flask, Qt
<b>Embedding Tools</b>	ROS, PCL, TensorRT, Raspberry pi 3, Nvidia Jetson tx2, AGX Xavier vim, VS Code, git, Doxygen, L <sup>A</sup> T <sub>E</sub> X

## WORK EXPERIENCE

<b>Ph.D. Fellow</b>	<b>IRIT</b>  & <b>Cerema</b> 	<b>Nov 2019 - Now</b> Toulouse, France
Achievements/ Tasks		
<ul style="list-style-type: none"><li>• Focusing on LiDAR-based/ monocular-based 3DOD methods</li><li>• Keywords: 3D object detection, Tracking, Segmentation, LiDAR, Linux, pytorch</li></ul>		

<b>Applied Scientist</b>	<b>VinAI Research</b> 	<b>Hanoi, Vietnam</b>
Achievements/ Tasks		
<ul style="list-style-type: none"><li>• Implementing &amp; reproducing the SOTA LiDAR-based/ monocular-based 3DOD on waymo, nuscenes datasets</li><li>• Training &amp; evaluating on our own large-scale datasets</li><li>• Exporting &amp; deploying the model on car products</li><li>• Keywords: 3D Object Detection, LiDAR, Linux, CUDA, pytorch, tensorRT, Embedded Systems</li></ul>		

<b>Research Intern</b>	<b>CEA</b> 	<b>Feb - Aug 2019</b> Paris, France
Achievements/ Tasks		
<ul style="list-style-type: none"><li>• Fine detection and recognition of large-scale products using the 3D sensor Realsense d435</li><li>• Targeted TensorRT optimization for embedded platforms Nvidia Jetson tx2, AGX Xavier private report</li><li>• Keywords: 2D Object Detection, Linux, pytorch, tensorRT, Embedded Systems</li></ul>		

<b>Research Intern</b>	<b>MIA</b> 	<b>Apr - Jul 2018</b> La Rochelle, France
Achievements/ Tasks		
<ul style="list-style-type: none"><li>• Reimplementing the SOTA 2DOD (YOLO v3) in tensorflow.</li><li>• Training &amp; evaluating on our own datasets</li><li>• Exporting and deploying the model on Raspberry PI 3/ TurtleBot 3</li><li>• Keywords: 2D Object Detection, Linux, tensorflow, Embedded Systems</li></ul>		

## EDUCATION

<b>Toulouse, France</b>	<b>Paul Sabatier University</b> 	<b>2019 - Now</b>
<ul style="list-style-type: none"><li>• Ph.D. student in Computer Science</li></ul>		
<b>Bourges, France</b>	<b>INSA CVL</b> 	<b>2014 - 2019</b>
<ul style="list-style-type: none"><li>• Diplôme d'Ingénieur (Master's Degree)</li></ul>		

## PUBLICATIONS

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- [C-2] **Nguyen Anh Minh MAI**, Pierre Duthon, Louahdi Khoudour, Alain Crouzil, Sergio A. Velastin.  
“Détection d’obstacles par vision et LiDAR par temps de brouillard pour les véhicules autonomes”  
- La 18ème édition d’ORASIS, journées francophones des jeunes chercheurs en vision par ordinateur (ORASIS 2021) | [.pdf]
- [C-1] **Nguyen Anh Minh MAI**, Pierre Duthon, Louahdi Khoudour, Alain Crouzil, Sergio A. Velastin.  
“Sparse LiDAR and Stereo Fusion (SLS-Fusion) for Depth Estimation and 3D Object Detection”  
- 11th International Conference on Pattern Recognition Systems (ICPRS 2021) | [.pdf]

## ADDITIONAL EXPERIENCE & AWARDS

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### Certificates & Awards

- 2021 Best Paper Award at the ICPRS 2021
- 2019 Ph.D. Scholarship for an outstanding candidate from the Cerema Research Center, France
- 2017 Deep learning specifications Certificates, Andrew Ng, Coursera
- 2016 Machine learning Certificates, Andrew Ng, Coursera
- 2014 2nd prize in mathematics at the provincial competition of the best high school students, Hue, Vietnam
- 2011 2nd prize in mathematics at the provincial competition of the best college students, Hue, Vietnam
- 2010 3rd prize in mathematics on pocket computer at the provincial competition of the best college students, Hue, Vietnam

### Summer School

- 2021 Reinforcement Learning Virtual School (RLVS 2021) hosted by the Artificial and Natural Intelligence Toulouse Institute (ANITI), Toulouse, France
- 2018 Document Analysis and Recognition at La Rochelle University, La Rochelle, France

### Teaching

- 2021 Teaching assistant at Reinforcement Learning Virtual School (RLVS) hosted by the Artificial and Natural Intelligence Toulouse Institute (ANITI), Toulouse, France
- 2021 “Introduction to Programming and Algorithms in Python” at the Paul Sabatier University (UPS), Toulouse, France