TRAN VAN CHIEN

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RESEARCH INTERESTS

My research interest lies in Computer Vision and SLAM (Simultaneous localization and mapping). Additionally, I'm also fond of implementing machine learning models that can understand visual information, reasoning, and extracting knowledge from a series of frames to help robots work effectively in complex dynamic environments. Currently, my work focuses on how to make those planning algorithms more adaptive by combining them with Deep Learning techniques.

EDUCATION

9/2019 - 12/2023	University of Engineering and Technology - Vietnam National University
	Undergraduated Student of Robotics Engineering
	• CPA: 3.51/4.0

RESEARCH EXPERIENCE

8/2022 - present	 Research Assistant Research Assistant Supervisor: PhD. Student Nguyen Manh Nguyen - Google Scholar, Letter of Recommendation Work on Visual Counting and Scene-Text-Spotting problems
8/2020 - I/2022	 Department of Robotic Engineering, UET-VNU Research Assistant Supervisor: Assoc. Prof. PhD. Xiem Hoang Van - Google Scholar Learning about Solidworks. Learning about OpenCV, Machine Learning & Deep Learning: Repository. Having experience with how to use Raspberry Pi Mouse. Implementing some of the recognition techniques like using voice to control movement, and tracking with color: Youtube Video. Having experience with ROS1. Implementing SLAM technique (Hector, Gmap- ping) and navigation based on that by Raspberry Pi Mouse: ROS.pdf, Youtube Video. Learning about Reinforcement Learning Lecture at UET: RLQuadruped.pdf.
2020	 CS50's Introduction to Artificial Intelligence with Python Self-Learning Starting approach to AI as an experience

7/2022 - 9/2022	Koh Young Technology Inc. Vietnam
	Internship
	Supervisor: PhD. Tuan Anh Nguyen - LinkedIn
	• Image Stitching by just Computer Vision, have no Deep Learning or Machine
	Learning technique. The dataset is provided by Koh Young, which is images of
	sub-circuit.

PROJECTS

4/2023 - 5/2023	 Vietnamese Sign Language Recognition <i>Research Assistant</i> Collect Dataset with 20 classes in short-video type and images. We trained image on CNN network and video with LSTM, compared with Bi-LSTM and Attention Mechanism Tools: Python
4/2023 - 5/2023	 Text recognition for Vietnamese citizens data digitization Research Assistant Align and Automatically extract information from identity cards by Yolov5s trained on custom dataset Tools: Python
1/2023 - present	 Multi-UAVs Path Planning on Point Cloud <i>Final Thesis</i> Using some algorithms on multi-UAVs for obstacle avoidance while flying to a specific destination indoor like a warehouse or factory on Point Cloud Tools: MATLAB, Python
6/2022 - 12/2022	 UAV Path Planning on Point Cloud Self-Learning Reconstructing an area of the environment by Point Cloud and generating a trajectory for UAV flies based on Point Cloud data as input: Path Planning on Point Cloud Tools: MATLAB, C/C++
I/2022 - 4/2022	 3D Bounding Box Estimation Using Both Camera and LIDAR Self-Learning How to use the camera 2D and LIDAR to reconstruct 2D views of the object into 3D: Complex-YOLOv4-Pytorch Tools: Python, OpenCV, Pytorch, Scikit learn
10/2021 - 3/2022	 Reinforcement Learning for a Traffic Control application Research Assistant Using Reinforcement Learning to decide which light will be turned on, it means which road will be opened and vehicles can go through: Traffic Light Control Tools: MATLAB, Python

TECHNICAL SKILLS

Programming Languages: Python, C/C++

Software Packages & Tools:

- Software Packages: Linux, ROS1, GIT, MATLAB, SolidWorks, Maple, Gazebo, LATEX
- Machine Learning: Pytorch, Keras, Scikit learn
- Computer vision: OpenCV
- Data engineering: Pandas, Matplotlib, Numpy

Hardware Platform: Embedded program on Nano JetsonTX2, Raspberry Pi, Arduino

ACTIVITIES

1/2023 - 2/2023	 National Robotics Championship Support Associate STEAM for Vietnam Foundation Head Referee
8/2022 - 9/2022	National Robotics TournamentSupport Associate• STEAM for Vietnam Foundation• Scorekeeper Referee Lead
12/2021	The 24th REV-ECIT Support Associate