PHAM QUANG ANH

anh.phamquang@phenikaa-uni.edu.vn

EDUCATION

Bachelor of Computer Science (Honors Program) 2017 – 2021

University of Engineering and Technology - Vietnam National University, Hanoi   Vietnam

- GPA: 3.6/4.0 (with honors)
- Thesis grade: 10.0/10.0

RESEARCH INTERESTS

Operations Research, Vehicle Routing Problem, Metaheuristic, Integer & Dynamic Programming, Data Science

WORK EXPERIENCE

Research Intern February 2018 – August 2019

ORLab   Vietnam

- Study Combinatorial Optimization, Operations Research, Metaheuristic, Artificial Intelligence
- Attend some optimization challenges.

Research Assistant September 2019 – Present

ORLab   Vietnam

- Work in some industrial projects about healthcare, logistics, etc
- Train new members
- Study variants of the Vehicle Routing Problem.

PROJECTS AND RESEARCH

ROADEF/EURO Challenge 2018 February 2018 – June 2019

ORLab

- Optimization problem: Two-dimensional bin-packing problem with defect constraints
- Supervisors: Dr. Ha Minh Hoang, Dr. Do Duc Dong
- Co-workers: Vu Duy Manh, Do Hoang Khanh
- Achieved **6th** rank in the qualification phase

VeRoLog Solver Challenge 2019 (September 2018 – June 2019) September 2018 – June 2019

ORLab

- Optimization problems: scheduling, multi-trip vehicle routing problem, multi-depot vehicle routing problem
- Supervisor: Dr. Ha Minh Hoang
- Co-workers: Vu Duy Manh, Nguyen Huy Hoang
- Took **4th** rank at the final phase

O-HOS, A Hospital Staff Management System September 2019–December 2020

ORLab

- Work as a BA and develop a model to deal with the nurse scheduling problem
- Receive the good feedback from customers.

Smart Logistics System January 2021–Present

ORLab

- Research and design efficient AI algorithms for optimizing container and transportation operations.
- Implement, test and integrate the solutions into the system.

HONORS AND AWARDS

Champion of PROCON Vietnam 2019   December 2019
Our team built a program using AI that outperformed other teams in the competition

The Dean's list   Fall 2020
Semester GPA above 3.9 at University of Engineering and Technology

PUBLICATIONS

[1] **A hybrid algorithm for the vehicle routing problem with roaming delivery locations**.
Quang Anh Pham, Minh Hoang Ha, Duy Manh Vu, Huy Hoang Nguyen. *International Conference on Automated Planning and Scheduling (ICAPS)*, pages 297-306, 2022.

SKILLS

Languages: Vietnamese (Native), English (TOEIC: 815 (L: 450, R: 365))
Programming Languages: C++, Python (NumPy, Plotly, Pandas), Java
Tools: CPLEX, Overleaf, Git