

# Tran Dang Trung Duc

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Researcher on 3D point cloud instance segmentation  
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🔗 GitHub Profile  
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## EDUCATION

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- **Combined Master's and Doctoral Program (Computer Vision)** 09/2022-present  
*Department of Electrical and Information Engineering, SeoulTech, Korea* GPA: 4.5/4.5 with 18 credits
- **Master Program (Data Science)** 11/2021-03/2022  
*Department of Computer Science and Technology, VNU in Ho Chi Minh City, Vietnam* GPA: 8.07/10 with 18 credits
- **High-Quality Engineer Training Program - PFIEV (Mechatronics)** 09/2015-03/2016, 04/2017-11/2021  
*Department of Mechanical Engineering, VNU in Ho Chi Minh City, Vietnam* GPA: 7.87/10 with 268 credits
- **Government Scholarships for Nuclear Energy Industry (Japanese)** 04/2016 - 10/2016  
*Department of Japanese, Hanoi Univeristy, Vietnam* Certificates: E (J-Test) , N3 and N2 (JLPT)

## PERSONAL PROJECTS

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- **AI Dictionary for Vietnamese People** 06/2021-12/2021  
*A project to make a mobile application and a specialized AI dictionary website for Vietnamese people.*
  - Member of the project's leadership team. In charge of assigning vocabulary translation work, providing vocabulary sources, and reviewing words after translation.
- **Computer Vision for Mobile Robot Find Target and Grasping** 04/2021-10/2021  
*A mobile robot moves automatically, avoiding obstacles and carrying objects at the destination.*
  - Mechanical calculation and 3D design for robots using Solidworks and simulation with Matlab.
  - Designed circuit boards using Altium. Microcontroller Arduino and TM4C123GXL programming using CCS.
  - Designed a fuzzy and Q-learning controller based on color detection from a camera on the ceiling using Python.
- **Design Smart Controller Using Neural Network For Mobile Robot** 11/2020-03/2021  
*A mobile robot moves automatically along a black line on a white background.*
  - Mechanical calculation and 3D design for robots using Solidworks and simulation with Matlab.
  - Designed circuit boards using Altium. Microcontroller Arduino and TM4C123GXL programming using CCS.
  - Designed a neural network to control the robot based on digital signals from infrared sensors with Python.

## EXPERIENCE

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- **Bosch Global Software Technologies Company Limited** 05/2021 - 08/2022  
*Internship (05/2021-08/2022) and official Embedded Software Engineer (08/2021-08/2022)*
  - Worked on automotive steering for the Chinese and Japanese car market as a member of the developer team.
  - Understood basic knowledge in developing a software of the automotive field and the complicated process of a large company.
  - Main tasks: developing features and functions according to customer's requirements, performing integration test (Lab-test), DevOps (using Jenkins to run automatically some test steps of integration test), static code analysis for C programming (Astree run).
  - Minor tasks: performing unit testing, supporting requirement analysis, supporting high-level design,...
- **CBD Robotics** 04/2021 - 10/2021  
*Bootcamp Internship*
  - Learned the fundamentals of machine learning and deep learning: EDA, feature engineering, linear regression, logistic regression, random forest, SVM, K-Means, KNN, CNN, RNN.
  - Project: design a rule-based combined with model-based (ParlAI) chatbot for a laptop business.

## TECHNICAL SKILLS AND INTERESTS

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**Languages:** Python, C, Matlab.

**Libraries :** PyTorch, Keras, Pandas, Seaborn, PLY,...

**Dev Tools:** VScode, Git, Github.

**Areas of Interest:** Image Classification, Object Detection, 3D Point Cloud Segmentation, Robotics.

**Soft Skills:** Problem Solving, Self-learning, Adaptability, Hard-working.