

Curriculum Vitae

Phuoc Thien Do

Home address:

Phuoc Thien DO
70/50C, Hamlet 3, Nhi Binh Commune, Hoc Mon
District, HoChiMinh City, Vietnam
Phone: (+84).32.988.3131 (Vietnam)
(+82).10.4832.1310 (Korea)

University address:

Department of Mechanical Engineering
Incheon National University
Incheon National University, (Songdo-dong)
119 Academy-ro, Yeonsu-gu, Incheon, 22012,
Republic of Korea.
E-mail: thien.dobk98@inu.ac.kr/
thiendo.me98@gmail.com/

Google Scholar: <https://scholar.google.com/citations?user=MK8XbSkAAAAJ&hl=vi&oi=ao>

Orcid ID: <https://orcid.org/0000-0003-1765-9840>

Research Interest

Soft Robot, Unmanned Aerial Vehicle (UAV), Indoor/ Outdoor navigation, Intelligent Robotic Grippers.

Education

- 2025 – Present **PhD.** in *Mechanical Engineering*, Incheon National University, Republic of Korea.
Studying
- 2022 – 2024 **M. Sc.** in *Mechanical Engineering*, Incheon National University, Republic of Korea.
Graduated
- 2016 – 2021 **B. Sc.** in *Mechanical Engineering*, HoChiMinh City University of Technology, Vietnam.
Graduated

Awards and Achievements

- AI Drone competition (Bronze medal), Busan, Republic of Korea (2024)
- Student Scientific Research – Euréka Award (Bronze medal), Ho Chi Minh city, Vietnam (2021)
- Student of 5 merits in Ho Chi Minh City University of Technology, Vietnam (2017)

Publications

Journal

1. Phuong H. Le, Thien P. Do and Du B. Le. A Soft Pneumatic Finger with Different Patterned Profile. IJMERR International Journal of Mechanical Engineering and Robotics Research - Vol. 10, No.10, pp. 577-582, October 2021. ISBN/ISSN: 2278-0149.
2. Do, Phuoc Thien, Quang Ngoc Le, Quoc Viet Luong, Hyun-Ho Kim, Hyeong-Mo Park, and Yeong-Jin Kim. 2023. "Tendon-Driven Gripper with Variable Stiffness Joint and Water-Cooled SMA Springs" Actuators 12, no. 4: 160, doi: 10.3390/act12040160.
3. Phuoc Thien Do, Hoai Phuong Le, "Forward Kinematics-based Prediction of Bending Motion for Soft Pneumatic Actuators with Varying Air Chamber", Proceedings of Engineering and Technology Innovation, vol. 24, pp. 41-52, doi: 10.46604/peti.2023.10536.
4. Kim, Hyunho, Sujin Jang, Phuoc Thien Do, Chang Kee Lee, Bummo Ahn, Suncheol Kwon, Handdeut Chang, and Yeongjin Kim. 2023. "Development of Wearable Finger Prosthesis with Pneumatic Actuator for Patients with Partial Amputations", Actuators 12, no. 12: 434. <https://doi.org/10.3390/act12120434>.
5. Phuoc Thien Do, Quang Ngoc Le, Hyeongmo Park, Hyunho Kim, Seungbo Shim, Kihan Park, and Yeongjin Kim. 2026. "Deep Reinforcement Learning for Temperature Control of a 2 Two-Way SMA-Actuated Tendon-Driven Gripper", Actuators 15, no. 1: 37.

Conference

1. Thien Do Phuoc, Thai Vo Dinh, Phuong Le Hoai. "A Soft Pneumatic Robotic Glove for Hand Rehabilitation After Stroke," 2021 20th International Conference on Advanced Robotics (ICAR), Ljubljana, Slovenia, 2021, pp. 7-12.

Technical Skills

- OS: proficient use of Windows.
- CAD softs – AutoCAD, Autodesk Inventor, Altium Designer.
- Programming language: C, Python, Matlab, Ladder (PLC).
- Languages: English, Vietnamese.

Activities

- Participated in the Robot Fight VietNam, VietNam (12/2019).
- Participated in the Bach Khoa Inovation, VietNam (02/2021)
- Participated in the Mechanical Engineering Robot Contest, VietNam (03/2021)
- Participated in the Euréka 2021, VietNam (09/2021)

Hobbies

- Playing table tennis, soccer, badminton, swimming
- Reading books
- Listening to musics

References

1. **Ph.D.,**
Kim Yeongjin
Associate Professor, Department of Mechanical Engineering, Incheon National University (INU),
Republic of Korea
Chief Executive Officer , LASTMILE Co LTD
Email: Ykim@inu.ac.kr
2. **Ph.D.,**
Le Quang Ngoc
Lecturer, Faculty of Mechanical Engineering, Ho Chi Minh City University of Technology
(HCMUT), VNU
Email: lqngoc@hcmut.edu.vn
3. **Ph.D.,**
Le Hoai Phuong
Lecturer, Faculty of Mechanical Engineering, Ho Chi Minh City University of Technology
(HCMUT), VNU
Email: lhphuong@hcmut.edu.vn