



# LE PHUONG LONG

PH.D. DEGREE

## CONTACT

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Bien Hoa City, Dong Nai  
Province, Vietnam

## ACADEMICS EDUCATION

- 09/2018 - 09/2022: Ph.D. Science Degree, National Chung Cheng University, Taiwan.
- 09/2007 - 09/2009: Master's Science Degree, National Kaohsiung University of Applied Science, Taiwan.
- 09/2003 - 09/2007: Bachelor of Science (B.S), Lac Hong University, Vietnam.

## PROJECTS APPLICATION

### MECHANICAL

- CAD and Mechanical design

### MOLD AND DIE ENGINEERING

- Mold and Die design
- Mold and Die simulation

### ENERGY EFFICIENCY

- Internal combustion engine (ICE)
- Battery electric & Solar cell
- Fuel cell technology
- Hybrid system (Fuel cell + Li-ion battery)

## COURSES AND TRAINING

- 09/2018-09/2022: Fuel cells performance, Hybrid system, energy efficiency, system efficiency, lifetime, Faults detection, energy monitoring.
- 20/04/2018-30/07/2018: English communication Giang & Mai center, HCM city, Vietnam.
- 20/12/2017-28/02/2018: Listening and reading skills in Giang & Mai center, HCM City, Vietnam.
- 05/10/2017-12/03/2018: C++ program, Auto Urban Concept Control, Lac Hong University, Vietnam.
- 02/07/2016-05/07/2016: Training 3S/5S, Lac Hong University, Vietnam.
- 15/09/2016-19/09/2016: Training AUN-Robotic, HCM City, Vietnam.
- 20/05/2014-28/07/2017: SolidWorks Advanced Simulation, SolidWorks Center, HCM City, Vietnam.
- 02/10/2014-10/12/2016: SolidWorks Advanced Weldment, SolidWorks Center, HCM City, Vietnam.
- 03/04/2014-10/06/2015: SolidWorks Advanced Surface, SolidWorks Center, HCM City, Vietnam.
- 12/08/2014-20/10/2014: SolidWorks Advanced Drawing, SolidWorks Center, HCM City, Vietnam.
- 12/06/2014-10/08/2014: SolidWorks Professional, SolidWorks Center, HCM City, Vietnam.
- 12/06/2014-10/08/2014: SolidWorks Associate, SolidWorks Center, HCM City, Vietnam.
- 02/03/2011-10/05/2011: Lecturer training, Lac Hong University, Vietnam.

# WORK EXPERIENCE

- 2009-2010: R&D at Cx-Technology Company in Vietnam.
- 2010-to present Lecturer at Lac Hong University, Vietnam.
- 07/2011-08/2012: The lecturer at Lac Hong University, Vietnam.
- 04/2013-05/2014: Team leader of LH \_ ICE energy efficiency in Honda EMC contest.
- 12/2013-06/2014 Research project "Recycle bin intelligent", innovation contest of the South Viet Nam area, Ho Chi Minh City, Vietnam.
- 04/2013-02/2014 Research project "automation machine", Neck-Tokin company, Vietnam.
- 06/2014-03/2015: Team leader of LH \_ ICE Ethanol energy efficiency in Shell Eco-marathon Asia contest - Phillipine.
- 06/2015-03/2016: Team leader of LH \_ ICE Ethanol energy efficiency Project in Shell Eco-marathon Asia contest - Phillipine.
- 09/2015-05/2016 Training WorldSkills participations, Hanoi City, Vietnam.
- 06/2016 -03/2017: Team leader of LH \_ Battery energy efficiency Project in Shell Eco-marathon Asia contest - Singapore.
- 06/2017-03/2018: Team leader of LH \_ Battery energy efficiency in Shell Eco-marathon Asia contest - Singapore.
- 06/2017-12/2017 Research project, " Car body fiber design", creative young scientist's contest, Dong Nai province, Vietnam.
- 06/2017-12/2017 Research project "ICE efficiency", creative young scientist's contest, Dong Nai province, Vietnam.
- 06/2018-06/2019: Member of LH-EST team, Battery electric, energy efficiency project in Shell Eco-marathon Asia contest - Singapore.
- 2019: Member of LH-EST, LAC HONG University, Viet Nam to participate in shell-Eco marathon Europe 2019, London, UK.
- 09/2018-09/2019 Research Project, "Energy monitoring", AIM-HI Technical Innovation, Taiwan.
- 09/2019-09/2020: Research Project, "An experimental study for optimizing the energy efficiency of a proton exchange membrane fuel cell with an open-cathode" Fuel cell lab, National Chung Cheng University, Chayi, Taiwan.
- 09/2020-09/2021: Research project, "A novel design for humidifying an open-cathode proton exchange membrane fuel cells using anode purge", Fuel cell lab, National Chung Cheng University, Chayi, Taiwan.



Workshop Group - AUN Training -Robotic, HCM City, Viet Nam



Prime Minister Awards Ha Noi - Viet Nam (2014-2015)



LH-EST Team - Battery electric winner Manila-Philipin (2015-2016)



Urban Concept - Battery electric Winner Changi-Singapore (2017-2018)



Fuel Cell Lab - Research group Chayi-Taiwan (2018-2022)



# AWARDS

- **Le Phuong Long** "Viet Nam young science talent 2014", Bronze Awards; December 22th, 2014.
- **Le Phuong Long** "Vietnam General Confederation of Labour" Certificate; February 27th, 2015.
- **Le Phuong Long** "Internal combustion engine winner", Shell Eco-Marathon Asia 2015, Golden Awards; Philipin; March 1st, 2015.
- **Le Phuong Long** "Internal combustion engine winner", Shell Eco-Marathon Asia 2016, Golden Awards; Philipin; March 6th, 2016.
- **Le Phuong Long** "Shell Eco-Marathon Asia Award" Certificate of Prime Minister; August 16th, 2016.
- **Le Phuong Long** "Shell Eco-Marathon Asia Award" Certificate of Prime Minister; August 16th, 2016.
- **Le Phuong Long** "National education union of Vietnam" Certificate; November 6th, 2017.
- **Le Phuong Long** "People's Committee of Dong Nai Province" Certificate; October 19th, 2017.
- **Le Phuong Long** "Battery electric", Shell Eco-Marathon Asia 2017, Golden Awards; Singapore; March 19th, 2017.
- **Le Phuong Long** "Battery electric", Shell Eco-Marathon Asia 2017, Golden Awards; Singapore; March 11th, 2018.
- **Le Phuong Long** "AIM-HI Technical Innovation", Bronze Awards, Taiwan; November 20th, 2019.



Shell Eco-Marathon Asia Winer 2015 - 2019



Shell Eco-Marathon Asia Contest  
(Philipin-Singapore-Malaysia(2015-2019))

# PAPER PUBLISHED

- [1] **Phuong Long Le**, Dong Phu Vo. "Hydraulic Forging machine by simulation and experiment method," in the 6th conference on mechanical (2014), Vietnam.
- [2] **Phuong Long Le**, Duc Dien Tran, Van Truc Hoang. "Hydraulic Bending and cutting machine by simulation and experiment method," in the 14th conference on mechanical (2016), Vietnam.
- [3] Phuong Truong Le, **Phuong Long Le**. "Techno-Economic Analysis of Solar Power Plant Project in Binh Thuan, Vietnam." International Conference on Green Technology and Sustainable Development. IEEE: p. 82-85, 2018.
- [4] **Phuong Long Le**, Bhupendra Singh, Yong-Song Chen, Amornchai Arpornwichanop "An experimental study for optimizing the energy efficiency of a proton exchange membrane fuel cell with an open-cathode". Int J Hydrogen Energy 2021; 46: 26507-26517.
- [5] **Phuong Long Le**, NitikaDevi, Bhupendra Singh, JustinChou, Amornchai Arpornwichanop, Yong-Song Chen. "A novel design for humidifying an open-cathode proton exchange membrane fuel cell using anode purge". Int J Hydrogen Energy 2022; xx: xxx-xxx.

**Le Phuong Long**