

# Hung Pham

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📄 [www.hungpham2511.github.io](http://www.hungpham2511.github.io)

## Education

- 2016–present **Ph.D. student in Robotics**, NTU, Singapore, supervised by Dr. Quang-Cuong Pham.
- 2011–2015 **Mechanical Engineering**, NTU, Singapore, *First class honours*.
- Honnors and Awards**
- 2011–2015 ASEAN undergraduate scholarship
- 2014 Winner of VTM Concept Design by Wincor Nixdorf
- 2011, 2013 Mechanical Engineering Dean's List
- 2010 Silver Medal in Asian Physics Olympiad

## Publications

### Journal papers

- J1, 2018 *A new approach to time-optimal path parameterization based on reachability analysis*  
**Hung Pham**, Quang-Cuong Pham  
IEEE Transactions on Robotics. Early access.
- J2, 2018 *Robotic manipulation of a rotating chain*  
**Hung Pham**, Quang-Cuong Pham  
IEEE Transactions on Robotics 34 (1), 139-150.

### Conference papers

- C1, 2018 *Time-Optimal Path Tracking via Reachability Analysis*  
**Hung Pham**, Quang-Cuong Pham  
2017 IEEE International Conference on Robotics and Automation.
- C2, 2018 *Departure and Conflict Management in Multi-Robot Path Coordination*  
Puttichai Lertkultanon, Yang Jingyi, **Hung Pham**, Quang-Cuong Pham  
2018 IEEE International Conference on Robotics and Automation.
- C3, 2017 *On the structure of the time-optimal path parameterization problem with third-order constraints*  
**Hung Pham**, Quang-Cuong Pham  
2017 IEEE International Conference on Robotics and Automation.
- C4, 2016 *Robotic 3D-Printing for Building and Construction*  
**Hung Pham**, Jian Hui Lim, Quang-Cuong Pham  
International Conference on Progress in Additive Manufacturing

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## Experience

### Professional services

Reviewer for IEEE Transaction of Robotics.

Reviewer for IEEE Transactions on Control Systems Technology

Reviewer for IEEE Robotics & Automation Letters.

Reviewer for 2018 IEEE/RSJ International Conference on Intelligent Robots and Systems.

Reviewer for Mechanism and Machine Theory

### Vocational

2015–2016 **Project Officer**, *NTU*, Singapore.

Responsible for conducting research and development in robotic motion planning.

Detailed achievements:

- Developed a robotic concrete 3D printing;
- Won second place in the Airbus Shopfloor Challenge Competition with CRI team.

### Internships

2014–2015 **Engineer, Intern**, *Innovation Center*, Nanyang Technological University.

Designed mechanical layout for water-borne testing machines.

2014–2014 **Design Engineer, Intern**, *Dyson Singapore*.

Developed a component for a Dyson machine.

Utilized statistical methods to create a magnetic field analysis tool.

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## Skills

Development    Robotic development in Ubuntu, proficient with Python, C++. Have worked with OpenRAVE, ROS.

Research        Specialize in time-optimal and robust robotic motion planning. Is familiar with applied mathematics (Linear Algebra, Optimization, Optimal Control). Have brief experience with Machine Learning.