



# CAO Hoang-Long

*Curriculum Vitae*

## PERSONAL DETAILS

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<i>Given name</i>	Hoang-Long
<i>Family name</i>	CAO
<i>Birth</i>	June 17, 1988
<i>Gender</i>	Male
<i>Nationality</i>	Vietnamese
<i>Address</i>	Robotics & Multibody Mechanics Research Group Faculty of Engineering, Vrije Universiteit Brussel Pleinlaan 2, 1050, Brussels, Belgium
<i>Tel</i>	(32)485-604-066
<i>Email</i>	Hoang.Long.Cao@vub.ac.be

## EDUCATION AND TRAINING

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### **MEng. Electromechanical** **2011-2013**

*Vrije Universiteit Brussel and Universite Libre de Bruxelles, Belgium*

Specification: Mechatronics - Construction

Thesis: *Development of cheap and small Probo for at-home autism therapy*

Classification: Great Distinction

### **Internship MEng. Electromechanical** **2012**

*Fisheye BVBA and Coptermotion, Gent, Belgium*

Specification: Robotics and UAV

### **Exchange BEng. Mechatronics** **2010**

*Kemi-Tornio University of Applied Sciences, Finland*

Specification: Embedded System

Project: *RFID Door-lock access system*

### **BEng. Mechatronics** **2006-2010**

*Can Tho University, Vietnam*

Thesis: *Design of mobile robots for the ABU Robot Contest 2010*

Classification: Excellent

### **High School Certificate** **2003-2006**

*Ly Tu Trong Specialized High School, Can Tho, Vietnam*

Specification: Physics

Classification: Good

## WORK EXPERIENCE

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### **PhD researcher** **Sep 2013-present**

*Robotics & Multibody Mechanics Research Group*

*Vrije Universiteit Brussel, Belgium*

DREAM Project

**Lecturer***Mechatronics Lab**Department of Automation Technology**Can Tho University, Vietnam***Sep 2010-present****Mechatronics Engineer***Bot4You Company**Belgium***Sept 2015-present**

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**PUBLICATIONS, CONFERENCE POSTERS & ABSTRACTS**

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- [1] H.-L. Cao, P. Gomez Esteban, A. De Beir, R. Simut, G. Van de Perre, D. Lefeber, and B. Vanderborght, "Robee: A homeostatic-based social behavior controller for robots in human-robot interaction experiments," in *Proceedings of the 2014 IEEE International Conference on Robotics and Biomimetics*, Bali, Indonesia, December 2014, pp. 516–521.
- [2] H.-L. Cao, G. Van de Perre, R. Simut, C. Pop, A. Peca, D. Lefeber, and B. Vanderborght, "Enhancing my keepon robot: A simple and low-cost solution for robot platform in human-robot interaction studies," in *Proceedings of the 23rd IEEE International Symposium on Robot and Human Interactive Communication*, Edinburgh, UK, August 2014, pp. 555–560.
- [3] H.-L. Cao and B. Vanderborght, "Using Keepon with a brain-machine interface." Brussels, Belgium: Poster presented at the 5th International Workshop on Human-Friendly Robotics, 2012.
- [4] N. C. Ngon, C. H. Long, and L. T. Hieu, "A solution for sunlight application," *Journal of Science-Cantho University*, vol. 19b, pp. 10–19, 2011, (in Vietnamese).

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**ACTIVITIES**

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**Social Robotics 2015***Paris, France*

Presenter

**Oct 2015****New Friends 2015***Almere, The Netherlands*

Presenter

**Oct 2015****Programming NAO robot****2015 International Summer School on Social HRI***Aland, Finland*

Workshop organizer

**Aug 2015****Robocup Junior Belgium 2015***Antwerp, Belgium*

Volunteer

**May 2015****IEEE ROBIO 2014***Bali, Indonesia*

Presenter

**Dec 2014****Dag van de Wetenschap – Science Day****Nov 2014**

<i>Mechelen, Belgium</i>	
Volunteer	
<b>IEEE RO-MAN 2014</b>	<b>Aug 2014</b>
<i>Edinburgh, United Kingdom</i>	
Presenter	
<b>Robocup Junior Belgium 2014</b>	<b>May 2014</b>
<i>Antwerp, Belgium</i>	
Volunteer	
<b>Hacking Keepon</b>	
<b>2013 International Summer School on Social HRI</b>	<b>Aug 2013</b>
<i>University of Cambridge, UK</i>	
Workshop organizer	
<b>Robot for high school students</b>	<b>Aug 2011</b>
<i>Ly Tu Trong Specialized High School, Can Tho, Vietnam</i>	
Organizer	
<b>Vietnam Robot Contest - ABU Robocon 2011</b>	<b>Apr 2011</b>
<i>Ho Chi Minh City, Vietnam</i>	
Preliminary round - Supervisor	
<b>Sunlight application with lighting optic fiber cable</b>	<b>Jan-May 2011</b>
<i>Can Tho University, Vietnam</i>	
Funded by Ministry of Science and Technology - Project member	
<b>RFID Door-lock access system</b>	<b>Sep-Dec 2010</b>
<i>Kemi, Finland</i>	
NSS Project in cooperation with CTU, Vietnam - Project member	
<b>Micom Car Rally Vietnam 2010</b>	<b>Nov 2010</b>
<i>Ho Chi Minh City, Vietnam</i>	
Forth Prize - Supervisor	
<b>Vietnam Robot Contest - ABU Robocon 2010</b>	<b>Apr 2010</b>
<i>Ho Chi Minh City, Vietnam</i>	
Second round - Participant	
<b>Remote Voting System with RFID</b>	<b>Jan-Apr 2010</b>
<i>Can Tho University, Vietnam</i>	
NSS Project in cooperation with KTUAS, Finland - Project member	
<b>Robot Mine Vietnam</b>	<b>Jan 2010</b>
<i>Ho Chi Minh City, Vietnam</i>	
Third Prize - Supervisor	
<b>Micom Car Rally Vietnam 2009</b>	<b>Nov 2009</b>
<i>Ho Chi Minh City, Vietnam</i>	
1/16 Finalist - Participant	
<b>Vietnam Robot Contest - ABU Robocon 2009</b>	<b>Apr 2009</b>
<i>Ho Chi Minh City, Vietnam</i>	
2nd round - Participant	

## ACADEMIC AWARDS

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- 2011 Erasmus Mundus Scholarship (Master Program), European Commission
- 2010 Best Graduating Student, College of Engineering Technology, CTU
- 2010 Sunflower Mission Engineering & Technology Fund for Bachelor thesis
- 2009 Robot Mine Vietnam - Third Prize with EM-BOT Team

- 2009 Vietnam - Korea Scholarship for Excellence
- 2009 Finalist of Global Undergrad Exchange Program, US Embassy in Vietnam
- 2009 Sunflower Mission Engineering & Technology Scholarship for Excellence
- 2008 Sunflower Mission Engineering & Technology Scholarship for Excellence
- 2007 Can Tho University Physics Contest: Winner
- 2006 Vietnam National Student Physics Olympiad: Third Prize
- 2006 Can Tho University Best Entrance Exam Score Award - Mechatronics
- 2006 Vietnam National Excellent Student Examination: Encourage Prize (Physics)
- 2006 Odon Vallet Scholarship for Excellence
- 2005 Australian Royal Chemical Exam: Distinction Prize (Chemistry)
- 2005 Mekong Delta Olympiad: Silver Medals (Physics)
- 2005 Southern Vietnam Olympiad: Bronze Medal (Physics)
- 2004 Southern Vietnam Olympiad: Bronze Medal (Physics)