CURRICULUM VITAE
NGUYỄN ĐỒNG HẢI PHƯƠNG

Personal Information

Date of Birth:	May, 17th 1987
Place of Birth:	Da Nang city, Vietnam
Gender:	Male
Nationality:	Vietnamese
Current Address:	Salita di San Rocco, 7A, Genova 16134, Liguria, Italy
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Education

Jan 2016 – present	PhD in Bioengineering and Robotics	Istituto Italiano di Tecnologia, Genova, Italy & Università degli Studi di Genova, Genova, Italy
Sep 2014 – Jul 2015	Master 2 of Advanced Robotics	Università degli Studi di Genova, Genova, Italy
	Course descriptions:	http://goo.gl/c0qI5L
Sep 2013 – Jul 2014	Master 1 of Advanced Robotics – Ranking: 2nd	Ecole Centrale de Nantes, Nantes, France
	Course descriptions:	http://goo.gl/BuJEup http://goo.gl/uX50yE
Jul – Aug 2010	Digital Signal Processing – Graded: Outstanding performance	Digital Signal Processing Summer School 2010, Da Nang, Vietnam. *
Sep 2005-Jul 2010	Bachelor of Electrical Engineering – Ranking: 1st	Da Nang University of Technology, Da Nang, Vietnam.
Sep 2002-May 2005	High-school Education – Specialized in Physics	Le Quy Don Specialized Highschool, Da Nang, Vietnam
Sep 1998-May 2002	Secondary education	Nguyen Khuyen Secondary school, Da Nang, Vietnam
Sep 1993-May 1998	Primary education	The Danang's Primary School for Talented Pupils, Da Nang, Vietnam

*Summer School held by the Vietnam Foundation (VNF, www.vnfoundation.org) in cooperation with the Da Nang University of Technology (www.dut.edu.vn), the Texas Instruments Inc.(www.ti.com), the FPT Technology Research Institute (FPTR, ftri.fpt.edu.vn), and the VTC Intecom (vtcfamily.com) and instructed by professors from the University of Illinois at Urbana-Champaign, the University of California at San Diego, and the Johns-Hopkins University.

Research

2015	Real-time Path Generation and Control with obstacles avoidance of Multicopters - Toward Autonomous Aerial Vehicles for Search and Rescue
2014	Monitoring and controlling Baxter robot with Oculus Drift.
2014	Developing ROS (Robot Operating System) stack and localization ability for Khepera III mobile robot (K-team).
2011	Studying and estimating the potential of wind energy in the area of Da Nang city, Vietnam.
2010	Automatic Voltage Regulation of Power Generator with dsPIC microcontroller.
2009	Digitalize PID Controller for DC motor with PIC microcontroller.
2008	Automatic license plate Recognition in Camera pictures.

Professional Experience

Jan 2016 - present	Marie Curie Early Stage Researcher at iCub Facility, Istituto Italiano di Tecnologia, Genova, Italy.
Sep 2015 - Dec 2015	Collaborative Researcher at DIBRIS, Università degli Studi di Genova, Genova, Italy.
Feb 2015 - Sep 2015	Research student at Laboratorium lab, DIST, Università degli Studi di Genova, Genova, Italy.
Nov 2010 - Jan 2016	Lecturer at Faculty of Electrical Engineering at Da Nang University of Science and Technology, Da Nang city, Vietnam.
Nov - Dec 2009	Intern at Van Thanh Medical Instruments Company, Da Nang city, Vietnam.
Jul - Aug 2009	Intern at Pleikrong Hydropower Plant, Kontum city, Kontum province, Vietnam.

Scholarships& Awards

2013-2015	Eramus Mundus Scholarship	EMARO
2010	Good Grade Graduation of Course 2005-2010 Award	Da Nang University of Technology, Da Nang, Vietnam
2009	Shinco Technos Scholarship for Excellent Students of Da Nang University of Technology	Shinko Technos Co. Ltd
2008	Odon Vallet Scholarship for Excellent Students	Rencontres Du Vietnam
2007	Odon Vallet Scholarship for Excellent Students	Rencontres Du Vietnam

Language Skills

Vietnamese:	mother-tongue
English:	IELTS 6.5 (June 2012)
French:	Beginner (reading, speaking, listening and writing)
Italian:	Beginner (reading, speaking, listening and writing)

Technical Skills

Software:

- Microsoft Words, Microsoft Excel, Microsoft PowerPoint: skilled user.
- AutoCAD, Photoshop: sufficient user.
- CATIA, SolidWorks: sufficient user for Robot manipulator design.
- DELMIA: sufficient user for Automation manufacturing design.

Simulation Tools:

- Matlab & Simulink (The MathWorks.Inc, US): proficient user in programming and simulating, particularly in Power Electronic and Electric Machines, Automatic Control System, Robot Manipulator, Mobile Robot, System Identification and Digital Signal Processing.
- Multisim (National Instruments): proficient user in designing and simulating both electric and electronic systems.
- Proteus (Labcenter Electronic, UK): expert user in simulating embedded systems and designing circuit layouts.

Programming language:

- Ladder, STL: good user in programming process control system in S7 Family of Siemens.
- Visual Basic: good user.
- C/C++, Assembly: skilled user, particularly in programming Micro Processors and Micro Controllers, embedded Operating system, ROS C++ (Robot Operating System), OpenCV C++, YARP.

Micro Processor:

- 8086 MPU Family (Intel Corporation): good user

Micro Controller:

- 8051 MCU Family (Atmel Corporation): good user.
- Fixed- Point Digital Signal Processor Family, Stellaris Family (Texas Instruments): basic user.
- PIC16, PIC18 & dsPIC (Microchip Corporation), Cypress PSoC: expert user in designing and programming embedded systems (measurement and control systems).

Robots:

- Mobile robots: Khepera III (K-team), Firefly (Asctec), Mindstorms (LEGO)
- Manufacturing robots: Puma, Baxter (Rethink robotics)
- Humanoid robots: iCub

Scientific& Research Interests

- Doing researches concerned with many directions of Control and Planning, Embedded Systems, Autonomous system and Mobile Robotics, Perception and Sensor fusion.
- Interested in finding solution for unresolved problems existing at this moment in these fields.
- Contributing and creating products and services to increase the living quality.

Publishes

1. Dong Hai Phuong Nguyen, Carmine Tommaso Recchiuto, Antonio Sgorbissa, "*A new approach in real-time path generation with obstacle avoidance for multicopters in complex environments*" (in review for IROS 2016)

Extra-Curricular Activities

Mar 2007	Liaison Officer in EWEC Meeting 2007 held in Da Nang city, Vietnam.
Oct 2006	Liaison Officer in APEC Tourism Ministerial Meeting held in Hoi An city, Quang Nam province, Vietnam.
Sep 2006	Staff Volunteer in 16th APEC SOM III held in Da Nang city, Vietnam.

References

1. Professor Giorgio Metta (PhD supervisor)
   iCub Facility, Istituto Italiano di Tecnologia, Genova, Italy
   Email: giorgio.metta@iit.it

2. Professor Antonio Sgorbissa (Master thesis supervisor),
   Laboratorium lab, DIST, Università degli Studi di Genova, Genova, Italy
   Email: antonio.sgorbissa@unige.it

3. Professor Wisama Khalil,
   Robotics group, IRCCyN, Ecole Centrale de Nantes, Nantes, France
   Email: wisama.khalil@irccyn.ec-nantes.fr

4. Professor Garcia Gaetan,
   Robotics group, IRCCyN, Ecole Centrale de Nantes, Nantes, France
   Email: gaetan.garcia@ec-nantes.fr

5. Dr. Nguyen Anh Duy,
   Vice Rector, Da Nang College of Technology, University of Da Nang, Da Nang city, Vietnam
   Email: naduy2000@gmail.com; naduy@dct.udn.vn