

GENNARO NOTOMISTA

PERSONAL INFORMATION

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 [gnotomista](#)

 gnotomista.com

EDUCATION

AUG 2016 –
PRESENT

Ph.D. in Robotics

Georgia Institute of Technology, Atlanta, GA, USA

AUG 2017 –
PRESENT

M.S. in Mathematics

Georgia Institute of Technology, Atlanta, GA, USA

MAR 2015 –
JAN 2016

Master of Science in Mechanical Engineering (majors in Robotics and Control System Engineering)

Università degli Studi di Napoli "Federico II", Napoli, Italy

Final degree mark: 110/110 cum laude

THESIS TITLE: Validation of Model-Based Criticality Estimates in Vehicle Safety Using a Multi Camera Reference System

THESIS FIELD: Computer vision, adaptive statistical filtering, sensor eigenfusion, motion planning, automotive active safety

THESIS SUPERVISOR: Prof.-Dr.-Eng. Bruno Siciliano
Eng. Alexander Kammenhuber (Audi AG)
Prof.-Dr.-Eng.- Michael Botsch (TH Ingolstadt)

OCT 2013 –
MAR 2015

Master of Engineering in Automotive Engineering

Technische Hochschule Ingolstadt, Ingolstadt, Germany

Final degree mark: 1.1 with honors

THESIS TITLE: Parking Maneuver Planning Based on Machine Learning

THESIS FIELD: Machine learning, path planning

THESIS SUPERVISOR: Prof.-Dr.-Eng.- Michael Botsch

OCT 2009 –
SEP 2012

Bachelor of Science in Mechanical Engineering

Università degli Studi di Napoli "Federico II", Napoli, Italy

Final degree mark: 110/110 cum laude

THESIS TITLE: Polar Decomposition of the Deformation Gradient

THESIS FIELD: Structural mechanics, mechanics of deformation

THESIS SUPERVISOR: Prof.-Dr.-Eng. Luciano Rosati

WORKING EXPERIENCES

JAN 2016 – JUNE 2016	<p>Internship Position on Vision for Teleoperated Mobile Manipulation (European Robotics Challenges Project) <i>Istituto Italiano di Tecnologia, Genova, Italy</i> Teleoperation, grasping and mobile manipulation, stereo vision, objects pose estimation in semi-structured environment, KUKA robot control (LBR4+ and iiwa), ROS</p>
JUL 2015 – DEC 2015	<p>Research Assistant Position on Cooperative Driving <i>Technische Hochschule Ingolstadt, Ingolstadt, Germany</i> Stereo vision applications, embedded system design, WPANs</p>
JUL 2015 – DEC 2015	<p>Master's Thesis Position <i>Audi AG, Ingolstadt, Germany</i> Computer vision applications, stereo vision system design, vehicle motion and criticality estimations in automotive active safety</p>
DEC 2014 – MAR 2015	<p>Software Developer Mini-Job <i>BFFT, Ingolstadt, Germany</i> ADTF (C++) software development, CAN databases for automotive applications</p>

SKILLS

Experience with the following programming languages, libraries, softwares and operating systems:

PROGRAMMING
SKILLS

- **Applications:** C/C++, Python, Java
- **C++ libraries:** Boost, Eigen, KUKA Fast Research Interface, KDL, OpenCV, OpenNI, PCL, Qt
- **Software version control:** Git
- **Simulation:** Matlab/Simulink (Octave and Scilab)
- **PLC programming:** Graph7, LAD, FBD, ST, STL
- **Scientific writing:** \LaTeX
- **Robotics:** ROS, Kuka.Sim Pro
- **CAD:** Solidworks, Pro/ENGINEERING Wildfire 5.0 (Creo Elements/Pro), Catia v5
- **FEA:** Ansys
- **Project management:** Microsoft Project
- **Music score writers:** Finale, Sibelius
- **OS:** Linux (Ubuntu flavours) for desktop PC and single-board computers (Odroid and Raspberri Pi), Windows

SPOKEN LANGUAGES

	Reading	Listening	Speaking	Writing
Italian (mother tongue)	-	-	-	-
English	C1	C1	C1	C1
German	B1	B1	B1	B1

ADDITIONAL INFORMATION

SELECTED PUBLICATIONS (JOURNALS)

G. Notomista, Y. Emam, and M. Egerstedt, "The SlothBot: A Novel Design for a Wire-Traversing Robot"

IEEE Robotics and Automation Letters, 2019

M. Egerstedt, J.N. Pauli, G. Notomista, and S. Hutchinson, "Robot ecology: Constraint-based control design for long duration autonomy"

Annual Reviews in Control, 2018

G. Notomista, S. Ruf, and M. Egerstedt, "Persistification of Robotic Tasks using Control Barrier Functions"

IEEE Robotics and Automation Letters, 2017

G. Notomista, M. Selvaggio, F. Sbrizzi, G. Di Maio, S. Grazioso, and M. Botsch, "A fast airplane boarding strategy using online seat assignment based on passenger classification"

Journal of Air Transport Management, 2016

Deutschkurs Teilnahmezertifikat, Stufe B1.2

Volkshochschule Ingolstadt, Ingolstadt, Germany, February 2015

PRO/Engineering CAD Operator

Protom Group S.p.A, Napoli, Italy, April 2012

CERTIFICATES AND AWARDS

3rd place in the national Mathematics competition "MeravigliosaMenteMatematica"

Capua, Italy, April 2009

Rotary International "Premiazioni alunni meritevoli"

Castellammare di Stabia, Italy, November 2008

Solfège exam certificate

Conservatorio Musicale di Salerno "Giuseppe Martucci", Salerno, Italy, June 2005

Fulbright scholarship to study for a Ph.D. in USA

September 2016 - Giugno 2017

DAAD scholarship B1 to spend a 6-month research period in Germany

July 2015 - December 2015

SCHOLARSHIPS

Study award "Roberto Rocca Educational Program"

Napoli, Italy, July 2015

DAAD scholarship A1 to complete a Master's Degree in Germany

October 2013 - March 2015

Study award "Roberto Rocca Educational Program"

Napoli, Italy, July 2013