

## MOTIVATION FORM FOR ROBOTICS ENGINEERING

### General Instructions (please read carefully)

To show your motivation for the M.Sc. in Robotics Engineering, please fill out this motivation form. There are **2 parts that you must fill out**. Failing to use this mandatory form properly will lead in obtaining a low grade on the motivation criterion.

Use font size 11 or 12.

### PART I – You and your motivations

#### Instructions:

This part helps us understand who you are as a person and maybe as a future Robotics Engineering student. You do not need to address anyone with an introductory phrase such as “To whom it may concern” or “Dear...”. Simply answer each question one by one like in a regular form. There is no need to use connecting words between the answers to each question. The size of these boxes should not be changed.

**1) State in short why you want to apply for the M.Sc. in Robotics Engineering at the University of Genoa (300-500 characters, spaces not included).**

I am applying to the M.Sc. in Robotics Engineering at the University of

Genoa

because it offers a rigorous and well-structured program focused on

robotics as an

integrated discipline, combining mechanics, control,

**2) Develop your strongest qualifications, past experiences and qualities that will help you to succeed. Specify how your bachelor's is relevant to succeed in Robotics Engineering @ UniGe (500-1000 characters, spaces not included).**

I hold a B.Tech. in Robotics and Automation Engineering, which provided me with a solid foundation in control systems, robotics, embedded electronics, kinematics and programming. During my studies, I worked on a robotic arm simulation using ROS and MoveIt, focusing on motion planning and manipulator control, and developed an underwater inspection robot with computer-vision based crack detection. Professionally, I have gained experience as a Robotic Software Intern at Genrobotics, as a Robotics Operations Engineer at Motherson Automotive Technologies and Engineering, and currently as a Robotics Engineer at Unibotix Innovations. These roles strengthened my ability to integrate hardware and software, work with real robotic platforms, and apply engineering

concepts in industrial and research environments. This background

**3) Develop what will be your professional project after getting your master's degree Do you want to work immediately, or do you want to do a Ph.D.? Do you plan to stay in Italy, if possible? (300-500 characters, spaces not included).**

After completing the master's degree, I aim to work as a robotics R&D engineer, focusing on the development of autonomous and intelligent robotic systems. I am particularly interested in roles that involve robot perception,

**4) Have you checked the manifest of Robotics Engineering @ UniGe? If so, what classes have drawn your attention? What would you choose? (300-500 characters, spaces not included).**

I carefully reviewed the Robotics Engineering study manifest. The courses related to robotic control, robot perception, manipulators modelling, mobile

**5) Specify how you discovered the programme Robotics Engineering @ UniGe and where you gathered information. You can check more than one.**

- friends
- students who already attended Robotics at UniGe
- JEMARO/EMARO double degree programs

- UniGe website
- student recruitment agencies
- other (please specify below)

**6/ What is your rank in your student's batch/cohort? If possible, submit a diploma supplement/degree annex in the application to certify your rank. It helps understand the voting scale used by your University.**

My university does not officially provide a ranking system for students. Therefore,

I

am unable to report an official rank. I have attached my transcripts to allow  
the

Example of degree annex highlighting the ranking of the student depending on the final CGPA

Internal assessment <sup>(1)</sup>	Corresponding international assessment	absolute number	Percentage of the total
[16,32-13,35]	A	23	First 10%
[13,34-11,094]	B	56	Next 25%
[11,089-10,18]	C	69	Next 30%
[10,15-09,26]	D	56	Next 25%
[09,23-07,27]	E	23	Next 10%

(1): This column is calculated based on the overall ranking averages of students who obtained the Degree during the same academic year. After ranking the scores, the range of scores for the top 10% of the population constitutes the first class to be placed in the first column (Grade A). The range of the next 20% constitutes the second class to be placed in the second row of the same column (Grade B), and so on. Each time, the absolute number corresponding to the calculated class will be determined.

## PART II – Your background

### Instructions:

This part comes as an additional tool to your transcripts. It is meant to help us understand your academic background and how it relates to Robotics Engineering.

Fill out the tables 1 & 2 following the indications given.

**Table 1 – Recall of your studies**

Undergraduate degree title (if you also obtained a master, mention it too)	Bachelor of Technology in Robotics and Automation Engineering
Mention minor/major or specialization if any	Minor Degree in Mechanical Engineering

**Table 2 – Links between your curriculum and Robotics Engineering**

Example on how to fill out the table (the matrix to fill out is on the next 2 pages, in red):

THEME	Key concept	Not covered	Beginner	Intermediate	Advanced	Most relevant course(s) where the concept was covered (list 3 courses max.)
Artificial Intelligence	Knowledge representation	X				N/A
	Machine learning				X	<i>ML201 Supervised learning</i> <i>ML302 Deep learning</i> <i>ML405 Advanced Machine learning</i>
	Symbolic AI		X			<i>SAI101 Introduction to symbolic AI</i>

THEME	Key concept	Not covered	Beginner	Intermediate	Advanced	Most relevant course(s) where the concept was covered (list 3 courses max.)
Artificial Intelligence	Knowledge representation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AI And Machine Learning - (RAT402)
	Machine learning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AI And Machine Learning - (RAT402)
	Symbolic AI	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AI And Machine Learning - (RAT402)
	Generative AI	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AI And Machine Learning - (RAT402)
	Foundation Models	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AI And Machine Learning - (RAT402)
Computer Engineering	Digital and embedded systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Microcontrollers And Embedded Systems - (RAT20)
	Object-oriented programming	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Robot Operating System Lab - (RAL333)
	Operating systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Robot Operating System Lab - (RAL333)
Control Engineering	Controllers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Control Systems - (RAT307)
	Laplace transform	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Control Systems - (RAT307)
	Linear systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Control Systems - (RAT307)
	Non-linear systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Control Systems - (RAT307)
	Stability	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Signals And Systems - (RAT306)
Mechanics	Mechanical design methods	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Machine Drawing And Solid Modelling Lab - (RAL201)
	Theory of mechanism and machines (kinematic and dynamic modelling)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Kinematics And Dynamics Of Mechanisms - (RAT202)

THEME	Key concept	Not covered	Beginner	Intermediate	Advanced	Most relevant course(s) where the concept was covered (list 3 courses max.)
Mathematics	2D/3D geometry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Engineering Graphics - (EST110)
	Differential calculus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Vector Calculus, Differential Equations And Transforms -(MAT102)
	Linear and matrix algebra	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Linear Algebra And Calculus - (MAT101)
	Logics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Engineering Mechanics - (EST100)
	Numerical methods	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Probability, Statistics And Numerical Methods - (MAT202)
Programming	C/C++	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Microcontrollers And Embedded Systems Lab - (RAL204)
	MATLAB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Electrical Drives And Control Lab - (RAL411)
	Python	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Robot Operating System Lab - (RAL333)
Robotics	Industrial robotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Automation Lab - (RAL331)
	Manipulators modelling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Automation Lab - (RAL331)
	Mobile robots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Introduction To Robotics - (RAT301)
	Robotic control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Industrial Automation - (RAT305)
	Robotic software programming	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Robot Operating System Lab - (RAL333)