Università di Genova | **DIBRIS** DIPARTIMENTO DI INFORMATICA, BIOINGEGNERIA, ROBOTICA E INGEGNERIA DEI SISTEMI

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, perception and software. The

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 prepares me

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, control and software

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
- [x] students who already attended Robotics at UniGe
- [ ] JEMARO/EMARO double degree programs
- [x] 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(1)	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.

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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	*ML201 Supervised learning* *ML302 Deep learning* *ML405 Advanced Machine learning*
	Symbolic AI		X			*SAI101 Introduction to symbolic AI*

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	☐	☐	☐	☒	AI And Machine Learning - (RAT402)
	Machine learning	☐	☐	☒	☐	AI And Machine Learning - (RAT402)
	Symbolic AI	☐	☒	☐	☐	AI And Machine Learning - (RAT402)
	Generative AI	☐	☒	☐	☐	AI And Machine Learning - (RAT402)
	Foundation Models	☐	☒	☐	☐	AI And Machine Learning - (RAT402)
Computer Engineering	Digital and embedded systems	☐	☐	☐	☒	Microcontrollers And Embedded Systems - (RAT20
	Object-oriented programming	☐	☐	☐	☒	Robot Operating System Lab - (RAL333)
	Operating systems	☐	☐	☐	☒	Robot Operating System Lab - (RAL333)
Control Engineering	Controllers	☐	☐	☐	☒	Control Systems - (RAT307)
	Laplace transform	☐	☐	☒	☐	Control Systems - (RAT307)
	Linear systems	☐	☐	☐	☒	Control Systems - (RAT307)
	Non-linear systems	☐	☐	☐	☒	Control Systems - (RAT307)
	Stability	☐	☐	☒	☐	Signals And Systems - (RAT306)
Mechanics	Mechanical design methods	☐	☐	☐	☒	Machine Drawing And Solid Modelling Lab - (RAL201)
	Theory of mechanism and machines (kinematic and dynamic modelling)	☐	☐	☐	☒	Kinematics And Dynamics Of Mechanisms - (RAT202)

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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	☐	☐	☐	☒	Engineering Graphics - (EST110)
	Differential calculus	☐	☐	☐	☒	Vector Calculus, Differential Equations And Transforms -(MAT102)
	Linear and matrix algebra	☐	☐	☐	☒	Linear Algebra And Calculus - (MAT101)
	Logics	☐	☐	☐	☒	Engineering Mechanics - (EST100)
	Numerical methods	☐	☐	☐	☒	Probability, Statistics And Numerical Methods - (MAT202)
Programming	C/C++	☐	☐	☐	☒	Microcontrollers And Embedded Systems Lab - (RAL204)
	MATLAB	☐	☐	☐	☒	Electrical Drives And Control Lab - (RAL411)
	Python	☐	☐	☐	☒	Robot Operating System Lab - (RAL333)
Robotics	Industrial robotics	☐	☐	☐	☒	Automation Lab - (RAL331)
	Manipulators modelling	☐	☐	☐	☒	Automation Lab - (RAL331)
	Mobile robots	☐	☐	☐	☒	Introduction To Robotics - (RAT301)
	Robotic control	☐	☐	☐	☒	Industrial Automation - (RAT305)
	Robotic software programming	☐	☐	☐	☒	Robot Operating System Lab - (RAL333)

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