



**POLITECNICO
DI TORINO**

FINAL PROJECT ASSESSMENT FOR POLITO EXCHANGE STUDENTS a.a. 23/24....

STUDENT'S FAMILY NAME AND NAME:	Buzio Marco
PROJECT SUPERVISOR:	Professor Francesca Santoro
HOST INSTITUTION:	RWTH Aachen University

PROJECT TITLE:	Design and Fabrication of electro conductive and photo curable hydrogels for bioelectronic interfacing
MONTHS DEVOTED TO THE PROJECT:	12
WORK LOAD IN ECTS CREDITS:	28

EVALUATION IN ECTS GRADING SCALE:

A	EXCELLENT	<input checked="" type="checkbox"/>
B	VERY GOOD	<input type="checkbox"/>
C	GOOD	<input type="checkbox"/>
D	SATISFACTORY	<input type="checkbox"/>
E	SUFFICIENT	<input type="checkbox"/>

COMMENT OF THE FINAL PROJECT SUPERVISOR:

Mr Marco Buzio has carried out his master's degree final project in my lab at RWTH Aachen University for 12 months, working on the development of an innovative photo-patternable conductive hydrogel composite for bioelectronic interfacing. Marco has a strong theoretical background giving him the ability to explore and practice most of the basic methodologies of material science and tissue engineering: synthesis and characterization of hydrogels (e.g. rheology and nuclear magnetic resonance), scaffolds preparations (photo-patterning). During his work, Marco has shown great passion and dedication to research and high versatility. He has carried out a complex work at the interface of material science, bioelectronics and biology. Indeed, he easily acquired knowledge and skills about organic bioelectronics, including electrochemical characterizations techniques (impedance spectroscopy and cyclic voltammetry), along with biology-related techniques such as cell culture of primary neurons, live/dead assays and fluorescence microscope imaging. Overall, Marco has carried out his final project with great passion and dedication, meeting all the deadlines and working in a very professional way, developing a great sense of consciousness and maturity giving him a considerable scientific independence.

DATE: 20/2/2024

SUPERVISOR'S SIGNATURE:

STAMP OF THE HOST INSTITUTION

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