

## Form to collect the information relevant for the PhD Quality Awards

### PhD Student information

Surname	Marceddu
Name	Antonio Costantino
PhD Cycle	36
Tutor	Bartolomeo Montrucchio

### Participation in Research Projects (add as many rows as necessary, 1 row per project)

Project name and short description	Competitive Selection	Project Scope	From	To	Role in project	Notes
The project, developed in the PhotoNext Interdepartmental Center, concerns the reading, transmission, and display in near real-time on the ground of data coming from fiber optic sensors placed on a flying model aircraft called Anubi.	No	R	01/01/2020	Ongoing	PL	

### Teaching Activities in University Courses (add as many rows as necessary, 1 row per activity)

Name of the course where the activity has been done	Course type	Course CFUs	Academic year	Role in course	number of hours of teaching <i>done</i>	CPD evaluation (if any)	Notes
02LSEOQ, 02LSEOV, 02LSEOV - Computer architectures	M	10	2022/23	T	30	75.11%	MIPS theory lessons
02LSEOQ, 02LSEOV, 02LSEOV - Computer architectures	M	10	2021/22	L+E	36	96.76%	
01DUVSU - Tutoraggio - System programming	M	N/A	2021/22	E	21	No evaluation	Tutoring lessons: CFU and CPD are therefore absent
01DRDSM, 01DRDNE, 01DRDMT - Challenge@PoliTo by Firms - Visual Recognition for Assisted Maintenance	M	8	2021/22	L	25	85%	
04KTOBG - System programming	M	6	2021/22	L+E	21	55%	Only 5 people out of 50+ students rated the teachings

02LSEOQ, 02LSEOV, 02LSEOV - Computer architectures	M	10	2020/21	L+E	12	92.55%	
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**Research Dissemination Activities** (add as many rows as necessary, 1 row per activity)

Dissemination activity name	Date	Link	Description	Notes
DAUIN PhD Poster Day 2022	08/11/2022	<a href="http://www.phd-dauin.polito.it/phd-poster-day-2022.html">http://www.phd-dauin.polito.it/phd-poster-day-2022.html</a>	Presenter with the topic entitled "Multivariate Analysis in Research and Industrial Environments"	
Biennale Tecnologia - Politecnico Aperto	11/11/2022 - 13/03/2022	<a href="https://2022.biennatecnologia.it/">https://2022.biennatecnologia.it/</a>	Presenter at the "Politecnico Aperto" sessions with the topic entitled "Visualizzazione innovativa di dati fotonici per sperimentazione di volo"	
Biennale Tecnologia - Pillole di Tecnologia	13/03/2023	<a href="https://www.youtube.com/watch?v=ihET2NP6PLA&amp;t=9063s">https://www.youtube.com/watch?v=ihET2NP6PLA&amp;t=9063s</a>	Speaker for the "Pillole di Tecnologia" format at Radio OndeQuadre during Biennale di Tecnologia	
PitchD - The PhD's Pitch	24/05/2023	<a href="https://www.polito.it/ateneo/comunicazione-e-ufficio-stampa/appuntamenti/news?idn=20861">https://www.polito.it/ateneo/comunicazione-e-ufficio-stampa/appuntamenti/news?idn=20861</a>	Speaker with the speech entitled "Multivariate Analysis in Research and Industrial Environments"	

**Participation in Contracts with Industrial Companies** (add as many rows as necessary, 1 row per contract)

Contract name and short description	Company name	From	To	Role in contract	Notes
Data-driven approaches for WTGs condition monitoring, performance analysis, and more	Sirius Srl	30/04/2021	ongoing	P	
Data-driven approaches to check the presence of waste in a bin and distinguish its type	ReLearn Srl	30/11/2021	ongoing	P	

**Patents** (add as many rows as necessary, 1 row per patent)

Patent title	Patent Type	Last patent status	Date	Notes

**Technology Transfer Activities** (add as many rows as necessary, 1 row per activity)

Technology Transfer Activity Description	From	To	Role in activity	Notes
Teacher for the SQL part of the "Human/machine interface for cyber-physical systems" course by Poliedra Progetti Integrati SpA	21/04/2020	23/04/2020	L	
Mentor for "My PhD Mentor", by the Comitato per la Valorizzazione del Dottorato, which is a mentoring program designed to improve the PhD experience and promote the personal, emotional, and professional growth of those who undertake this path	01/03/2022	01/03/2023	L	

Speaker for the introductory part on Linux and Bash in the "(Not) Lost in Coding" Masterclass by the Mu Nu Chapter of IEEE-HKN	07/05/2022	07/05/2022	L	<a href="https://hkn.polito.org/masterclass-ii/">https://hkn.polito.org/masterclass-ii/</a>
Mentor for Lead The Future, which is a non-profit that helps Italian talents in the STEM field to realize their dreams	01/10/2022	01/10/2023	L	
Actual Corresponding Secretary of the Mu Nu Chapter of IEEE-HKN	01/10/2022	30/09/2023	L	
Mentor for the "Project Hera", an internal mentoring service by the Mu Nu Chapter of IEEE-HKN	01/04/2022	Ongoing	L	
Co-organizer of the "Mental Wellness and Digital Well-being" event by the Mu Nu Chapter of IEEE-HKN, which had the pleasure of hosting Cinzia Ninetto, Professional People of the Servizio LIFE, Marianna Filippelli of the Clinica dell'Ascolto and the Dialogue, Explore, Bond (DEB) student association	27/05/2022	27/05/2023	L	<a href="https://www.polito.it/ateneo/comunicazione-e-ufficio-stampa/appuntamenti/news?idn=20904">https://www.polito.it/ateneo/comunicazione-e-ufficio-stampa/appuntamenti/news?idn=20904</a>
Co-organizer of the "Scrivere report scientifici: tecniche e strategie per una comunicazione efficace" event by the Mu Nu Chapter of IEEE-HKN, which intended to introduce the creation of effective scientific reports through teaching carried out by students for students	02/06/2023	02/06/2023	L	<a href="https://youtu.be/oAMvHd8ZcBs">https://youtu.be/oAMvHd8ZcBs</a>
Co-organizer of the "Quantum Quest: Beyond 0s and 1s" event by the Mu Nu Chapter of IEEE-HKN which, among the various speakers, had the pleasure of hosting Giacomo Vitali of Intesa San Paolo and Bartolomeo Montrucchio of the Politecnico di Torino	08/06/2023	08/06/2023	L	<a href="https://youtu.be/US-OU6EHW6o">https://youtu.be/US-OU6EHW6o</a>
Volunteer for the IEEE EUROCON 2023 conference and, as Corresponding Secretary of the Mu Nu Chapter of IEEE-HKN, co-organizer of the "Best Student Research Video&Poster Competition" and the "B.S. and M.S. Student Competition"	05/07/2023	08/07/2023	L	

**Awards** (add as many rows as necessary, 1 row per award)

Award Description	Date	Type	Notes
Certificate of appreciation for the excellent oral presentation and for the significant contribution to the ICMV 2020 conference	06/11/2020	Other (specify in notes)	Certificate of Appreciation
Winner of the "Best Students & YPs Demo Competition" at IEEE EUROCON 2023 together with Alessandro Aimasso with the project developed in the PhotoNext Interdepartmental Center.	07/06/2023	Best paper award (or similar)	Best Demo
"Key Chapter Award" for the Mu Nu Chapter of IEEE-HKN during the time as a Board member	25/07/2023	Other (specify in notes)	IEEE-HKN Chapter Award