PERSONAL INFORMATION

Andrea Piermarteri

Sex Male | Date of birth 23/12/1989 | Nationality Italian

RESEARCH EXPERIENCE

Publications

Tailoring Micro-solar Systems to Heterogeneous Wireless Sensor Networks S. Calabrò, R. Gagliardi, F. Marcantoni, M. Micheletti, A. Pacini, A. Piermarteri

MIRTO: an open-source robotic platform for education

K. Androutsopoulos, L. Aristodemou, J. Boender, M. Bottone, E. Currie, I. El-Aroussi, B. Fields, L. Gheri, N. Gorogiannis, M. Heeney, M. Micheletti, M. Loomes, M. Margolis, M. Petridis, A. Piermarteri, G. Primiero, F. Raimondi, N. Weldin

Rotating energy efficient clustering for heterogeneous devices (REECHD)

M. Micheletti, L. Mostarta, A. Piermarteri

PICO-MP: de-centralised macro-programming for wireless sensor and actuator networks N. Dulay, M. Micheletti, L. Mostarda, A. Piermarteri

Conferences

The 32rd IEEE InternationI Conference on Advanced Information Networking and Applications (IEEE AINA 2018)

Presentation of the paper: "PICO-MP: de-centralised macro-programming for wireless sensor and actuator networks".

The 3rd International Workshop on Engineering Energy Efficient WSNs (EEEWSN - 2016)
Helped with the organisation of the 3rd International Workshop on Engineering Energy Efficient WSNs (Publicity).

Curriculum vitae Andrea Piermarteri

Projects

PICO-MP

Design and development of an energy efficient publish-subscribe middleware for wireless sensor networks, with a first order logic based subscription language.

PICO-MP is the main topic of my PhD in UNICAM.

A4WSN

Development of an extensible programming framework for Wireless Sensor Networks, in collaboration with UNICAM and UNIVAQ.

Designer and Programmer of the framework's UI and connectors with Analysis and Code Generation plugins, using the Eclipse framework and Java.

Homeland Security

Analysis of how the technologies of heterogeneous and cooperative wireless networks can provide a significant contribution in monitoring and control of land and/or sensitive perimeters.

I wrote surveys about security and trustness technologies in ports environment, in collaboration with UNIVAQ.

ESSNet CORE

CORE (COmmon Reference Environment) is an ESSNet (network of several European Statistical System organisations) project for the realization of a complete information model for process modeling, and for the development of a software environment for the automated execution of statistical processes upon it.

In this project, I extended the Oryx Framework with a custom StencilSet for the graphical representation of statistical processes of CORE.

Honours and awards

AINA 2018 - Best Paper Award

"PICO-MP: de-centralised macro-programming for wireless sensor and actuator networks" has been awarded as the best paper of the AINA 2018 conference.

Admission to GSSI Computer Science PhD Programme

I have been admitted to the Gran Sasso Science Institute PhD Programme in Computer Science (Academic Year 2015/2016); I had to decline that position on personal grounds.

TEACHING EXPERIENCE

01/03/2020-30/06/2020

Tutoring: Programming (first year) course

UNICAM, Camerino (Italy)

Tutoring activity on the course of Programming (first year):

- lectures (excersises);
- communication with the students:
- support during exams.

01/03/2020-30/06/2020

Tutoring: Computer Architecture course

UNICAM, Camerino (Italy)

Tutoring activity on the course of Computer Architecture:

- lectures (excersises);
- communication with the students;
- support during exams.

07/10/2019-30/01/2020

Contract professorship: Embedded Systems Architecture

UNICAM, Camerino (Italy)

Embedded Systems Architecture course in UNICAM's Computer Science Master Degree

programme.

Frontal classes on architectural details for embedded systems, lab activities on embedded

systems programming and development.

Group exams on embedded systems lab projects.

08/01/2018-20/04/2018

Hourly Paid Lecturer: Computer Science - First Year

Middlesex University, London (United Kingdom)

Computer Science - First Year course in MDX's Computer Science bachelor degree

programme.

Frontal classes with students with excercises and various activities.

26/10/2016-25/01/2017

Tutoring: Embedded Systems Programming course

UNICAM, Camerino (Italy)

Tutoring activity on the course of Embedded Systems Programming:

- lectures (excersises);
- communication with the students;
- support during exams.

10/03/2015-19/05/2015

Tutoring: Sensor Networking course

UNICAM, Camerino (Italy)

Tutoring activity on the course of Sensor Networking:

- lectures (excersises);
- communication with the students;
- support during exams.

19/11/2013-04/02/2014

Tutoring: Computer Architecture course

UNICAM, Camerino (Italy)

Tutoring activity on the course of Computer Architecture:

- lectures (excersises);
- communication with the students;- support during exams.

Curriculum vitae Andrea Piermarteri

EDUCATION AND TRAINING

30/11/2015 - 21/10/2020

PhD in Computer Science

Unicam, Camerino (Italy), XXXI Cycle.

Thesis: "PICOMP: a distributed energy efficient middleware for WSANs"

Supervisor: Professor Leonardo Mostarda

01/10/2011-30/07/2014

Master Degree in Computer Science

Unicam, Camerino (Italy)

General Results: 110/110 cum laude.

Final Dissertation: Analysis & Development of an extensible Programming Framework for Wireless Sensor Networks.

Main topics of the course:

- Complex Systems development and simulation;
- Advanced English;
- DataWarehouse;
- Distributed Systems;
- Theory of Complexity;
- Cisco CCNA certification.

01/09/2008-15/12/2011

Bachelor Degree in Informatica

Unicam, Camerino (Italy)

General Results: 110/110 cum laude.

Final Dissertation: EXTENDING ORYX FRAMEWORK FOR BPM: DESIGN & IMPLEMENTATION

Main topics of the course:

- Mathematics Fundamentals;
- English;
- Programmin skills (Java, C, C++);
- Logic and Theory of Computer Science;
- DataBase Development;
- Advanced Software Systems Engineering.

01/09/2003-15/06/2008

Diploma di Ragioniere Programmatore

Istituto Tecnico Commerciale A. Gentili, Macerata (Italy)

- Italian expression;
- Mathematics;
- Professional calculus;
- Foreign Languages (English, French);
- Physical education;

Professional Sector:

- Knowledge of the enterprise and its economic, juridical and social environment;
- Knowledge of the main legal and operating praxis in economy and finance;
- Basic programming and pc use.

WORK EXPERIENCE

01/01/2015-30/06/2015

Scholarship holder

UNICAM, Camerino (Italy)

Scholarship for scientific support to MOOCs creation.

Supported the creation of scientific MOOCs (Massive Open Oline Courses), teaching materials

upkeep and maintenance, communication with students.

15/02/2014--15/10/2014 Computer systems analyst

Nobody s.r.l., Camerino (Italy)

Software development, web development, dba, assistence, development and maintenance of

DataWarehouse in public sector (Regione Marche).

01/09/2012-01/10/2012

Research and development department manager

Filippetti s.p.a., Falconara (Italy)

Research and comparison of different software solutions for Big Data.

01/04/2011-01/06/2011

Software Developer

ISTAT, Roma (Italy)

Stage for development of applications to interface many analysis tools into the EUROSTAT

environment.

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PERSONAL SKILLS	was also transfer a substitution of the substi				* "
Mother tongue(s)	Italian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	C1	B2	C1
			PET		
French	A2	B1	A1	A1	A2
	Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user Common European Framework of Reference for Languages				
Communication skills	Good communication skills, acquired through the interaction with professors and students into the University, both in italian and english. No difficulties in oral presentation and public speaking, also due to the live music activity.				
Organisational / managerial skills	Able to organise his own and other people work, having successfully coped with group projects with limited time and limited resources, mostly in the academic field.				
Job-related skills	Very advanced knowledge and skills in the ICT field.				
Digital competence	 Software Development (Java, Python, TypeScript, c, c#, Javascript), mostly desktop, backend, mobile and embedded, with some surface knowledge of frontend programming (React); Use of different versioning systems (Git/SVN); 				
	- Database development and management;				
	- strong awareness of security issues;				
	- Very good skills in computer networking (Cisco CCNA certification);				
	- use of UML and design tools;				
	 use of OS (Linux and Windows), and many applications packages (Office, OpenOffice, Audacity, Gimp, etc), privately acquired during years. 				
Other skills	- good at playing guit	ar and singing;			
	- I can also play bass	guitar, drums and	piano.		
Driving licence	В				

Date: 02/03/2021

Signature: