PERSONAL INFORMATION Andrea Piermarteri

CURRENT POSITION

30/11/2015 - now **UNICAM Computer Science PhD Programme**
PhD candidate in Computer Science, XXXI Cycle.
Supervisor: Professor Leonardo Mostarda

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 32nd IEEE Internationl 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).

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

26/10/2016– 30/06/2017   **Tutoring for the disabled students welcome division**

UNICAM, Camerino (Italy)

Helping to ensure equal access, integration and participation in university life to all students with disabilities and with SLD.

Mainly helped a vision-impaired student in his first year at the computer science faculty.

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.

EDUCATION AND TRAINING

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.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
B2	C1	B2	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 succesfully coped with group project 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

- Programming (Java, c, c#, Javascript);

- Database development and management;

- Very good skills in computer networking;

- use of UML e design tools;

- use of OS (Linux and Windows), and many applications packages (Office, OpenOffice, Audacity, Gimp, etc...), privately acquired during years.

Other skills

- Guitar playing, both electric and acoustic;
- Singing.

Driving licence B

Date: 10/09/2019

Signature: