



Curriculum Vitae Europass



Personal information

Surname/ First name **Andrea Di Domenico**
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Nationality Italian
Date of birth 30/08/1982
Gender Male

Work experience

Dates	From 10 September 2007 to 31 December 2007
Occupation or position held	Software development with project contract
Main activities and responsibilities	Design and realization of a software system for the source code review in C,C++ and ata codes. The system realizes tests for for the source code review and it produces as output doc files with the results of the tests. It is possible to select the type of test and to specify the folder in which all the files under analysis are contained. The software automatically analyzes all the files in the specified folder. Yhe programming language used is C#, which refers to the office dlls to create the doc files. The tests realized are written by following the software code standard RTCA/DO-178B.
Name and addresses of employer	Cedati engineering S.P.A. gruppo Altran Roma – Filiale Via Terenzio, 35 – 00193 Tel. (+39) 06 687 79 09 Fax (+39) 06 681 93 281 Email info@cedati.com
Type of business or sector	Technology consulence
Dates	From 11 June 2007 to 9 September 2007
Occupation or position held	Software development with project contract

Main activities and responsibilities	<p>Design and realization of an operator interface for PDA. The goal of the system is to manage from distance an apparatus for the geometric measure of metallic dashes at high temperature with a Wi-Fi interface.</p> <p>The architecture is client-server. The client (HWPDA) is a software running on a Pocket PC (with Window Mobile 5.0) and it uses the compact framework .NET as infrastructure. The software HWPDA communicates with a server ASP (IIS) via Ethernet and Wireless channel to access to the Web Services which gives all the functions for the commands sending and the data input. The client receives, then, some messages via UDP, containing diagnostic information. The Web Services take the information through a shared blackboard.</p> <p>The programming language used is C#, in particular, the client-server architecture has been realized, with characteristics soft real-time, either the telecommunication side, and the graphical interface of the system.</p>
Name and addresses of employer	<p>Cedati engineering S.P.A. gruppo Altran Roma – Filiale Via Terenzio, 35 – 00193 Tel. (+39) 06 687 79 09 Fax (+39) 06 681 93 281 Email info@cedati.com</p>
Type of business or sector	Technology consulence
Dates	From 12 December 2006 al 12 March 2007
Occupation or position held	Trainer
Main activities and responsibilities	<p>Analysis of a transcodificator SIP/H.324m and realization of its level control.</p> <p>System description: Gateway video that, connected with a ISDN card to the 3GPP network and with a modem to Internet, allows the communication between the SIP and the 3GPP technologies.</p> <p>Goal:</p> <ul style="list-style-type: none"> -Realization of a video gateway which realizes the transcoding of the signaling and the audio/video codec, in order to allow the communication between a SIP device and a video mobile device using 3GPP -Analysis of the main standard used(H.324, 3GPP, H.223, H.245, X.680 o ASN.1, X.691 o PER, SIP, SDP) -Realization of a SW able to realize the coding and decoding of messages and procedures described in the H.245 standard (C++) -Test of the SW obtained with a ASN.1 Value Editor -Documentation of a possible transcoding between signaling protocols SIP/H.245. -Analysis of the sofiasip and libosip libraries.
Name and addresses of employer	<p>Espia S.r.l. Sede legale: via Pascoli 37, 20129, Milano Sede commerciale: Via Pinturicchio 1 , 20133, Milano Tel. (+39) 02 70633354 Fax (+39) 02 45487890 Email info@voismart.it</p>
Type of business or sector	Research and development of solutions for communication
Dates	From 17 September 2006 to 30 June 2007
Occupation or position held	Technical practical teacher in physic laboratory
Main activities and responsibilities	<p>I.T.I.S "E. Mattei" Ctr.da Nunziatella, 86070, Isernia Tel. (+39) 0865 411697</p>
Dates	From September 2005 to June 2006
Occupation or position held	Technical practical teacher in electronic laboratory
Name and addresses of employer	I.T.I.S. Agnone

Education and training

Dates	From 21 January 2008. Ongoing.
Title of qualification awarded	II level Master Degree in Advanced Systems for Communication and Satellite Navigation.
Main issues/Occupational skills awarded	Knowledge about all the aspect regarding the research, the design and the realization of Communication and Satellite Navigation Systems.
Name and type of organization providing education and training	Università degli Studi di Roma "Tor Vergata" – Facoltà di Ingegneria
Dates	From September 2004 to 27 April 2007
Title of qualification awarded	Specialistic Degree in Telecommunication Engineering (with final score of 110 cum laude / 110)
Main issues/Occupational skills awarded	Knowledge of all aspects regarding the development, the research and the design of telecommunication systems. Thesis from the title "Implementation of coding/decoding of H.245 messages in ASN.1 according to the "PER" specifics and design of the SDP transcoding for a 324m/SIP gateway" Thesis realized in the company Voismart, supervisor Prof.Ciro D'Elia. Contents: - analysis of the standard 3GPP (H.245, H.223, H.324c); -analysis of the standard ASN.1 (X.680) and PER (X.691); -analysis of the standard SIP and SDP; -realization of a SW able to realize the coding/decoding of messages and procedures described in the standard H.245 based on the standard "PER" (with C++); -Description of a possible transcoding SIP/H.245. List of exams: -Information Theory (28/30); -Electromagnetic fields II (LS) (24/30); - Mathematical Analysis IV (24/30); -Complements of dynamic systems (24/30); -Numerical Transmission II (28/30); -Elettrotecnica (LS) (27/30); -Digital signals elaboration II (28/30); -Radiomobiles systems (28/30); -Optical fibers (29/30); -Operating systems (30/30); - Remote sensing systems (30/30) (analysis of the main remote sensing techniques, analysis of a SAR system, Matlab exercises for the SAR images elaboration); -Telecommunication Networks II (30 cum laude/30) (realization with C# of a client/server system for a chat); -Microwaves (30/30); -Electronic Calculators II (27/30); -Electronic for digital communication (30 cum laude/30) (realization on FPGA of the main modulation systems schemes by using Quartus, DSP programming); -Electronic Measurements for telecommunications II (28/30) (block diagram of DVB-T standard, W-CDMA used in 3G communication, exercises with Labview); -Cryptography and security of networks (29/30) (analysis of the main criptographical schemes like DES, 3DES, AES, RSA, exercises with Matlab); -Artificial Intelligence/Theory and techniques for the pattern recognition (30/30); -Elaboration and transmission of images (30/30) (techniques of improvement of images, bidimensional transform DCT, KLT, wavelet transform, images compression with and without loss, exercises with matlab); -Electronic for analogic communications (28/30); - Mathematical Analysis V (28/30);
Name and type of organization providing education and training	Università degli Studi di Cassino – Facoltà di Ingegneria

Dates From September 2001 to September 2004

Title of qualification awarded Degree in Telecommunication Engineering (with final score of 106 / 110)

Main issues/Occupational skills awarded Thesis from the title "Viterbi's algorithm for the decoding of convolutional codes"
Supervisor Prof. Buzzi Stefano.

Contents:
-Analysis of the structure of a general system for digital transmission;
-Analysis of the block codes and in particular of convolutional codes;
-Analysis of Viterbi's algorithm for the decoding of convolutional codes;
-Implementation of Viterbi's algorithm with Matlab;
-Realization of a Matlab SW to evaluate the performance of Viterbi's algorithm;

Name and type of organization providing education and training Università degli Studi di Cassino – Facoltà di Ingegneria

Dates July 2001

Title of qualification awarded Diploma of industrial expert, specialization electronic and telecommunications (with final score of 100/100)

Name and type of organization providing education and training I.T.I.S. "E. Mattei" di Isernia

Personal skills and competences

Mother tongue(s) **Italian**

Other(s) language(s) **English**

Self assessment
European level ()*

English

Understanding				Oral				Written	
Listening		Reading		Spoken interaction		Spoken production			
B1	Intermediate	B1	Intermediate	B1	Intermediate	B1	Intermediate	B1	Intermediate

(*) Quadro comune europeo di riferimento per le lingue

Social skills and competences -Good team spirit;
-Good communication skills;

Organizational skills and competences -Leadership;
-Good sense of organization;
-Project management abilities due to the working experience

Technical skills and competences Network :

- Networking LAN (TCP/IP, UDP, FTP, Telnet ...)
- Architectures of mobile networks (2G/3G)
- Protocol Stack SIP e SDP
- Protocol Stack 3GPP (H.245, H.223, H.324 c)
- Standard ASN.1 (X.680) PER (X.691)

Intervention Levels:

- Drafting technical and system documentation
- Design of architecture and SW implementation
- Integration of SW systems
- Analysis and development of algorithms
- SW test design
- PC assemblage

Measurement instruments:

- Oscilloscope
- Spectrum analyzer
- Spectrum Vectorial analyzer
- Network analyzer

Computer skills and competences

Programming languages:

- C/C++ (excellent level);
- C# (excellent level);
- Visual basic (excellent level)
- Java (good level);
- Matlab (excellent level);
- Bases of ASP.NET (base level);
- ASN.1 (basic level);
- HTML (good level);
- SQL (good level);

Applications:

- MS Visual Studio
- Office
- Quartus di Altera (Programmazione a blocchi)
- Labview
- Simulink
- Matlab
- Multisim
- Orcad
- Corel Draw

Operating systems:

- Windows Server 2003/XP OS, .NET Platform
- MS Dos

Artistic skills and competences

-Acoustic, classic and electrical guitar
-Wide musical and cinema culture

Other skills and competences

-Sport activities: tennis, swimming, volleyball, soccer, ping-pong.
-Card-member of a II category soccer team.

Driving license

Driving license (B)

Additional information

Post graduated qualifications

Winner of a scholarship (public concourse), second place in the classification, for the V Edition of the II Level Master Degree in "Advanced Systems for Communication and Satellite Navigation" in Università degli Studi di Roma "Tor Vergata", engineering faculty.

Availability for local and foreign countries transfer .
Availability for internships.

Dichiaro che le informazioni riportate nel seguente curriculum vitae sono esatte e veritiere.

Autorizzo il trattamento dei dati personali, ivi compresi quelli sensibili, ai sensi e per gli effetti del decreto legge 196/2003 per le finalità di cui al presente avviso di candidatura.

Carovilli

Andrea Di Domenico