

# *CURRICULUM VITAE*

## *PASQUALE LEVI*

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### *Personal data:*

**First Name:** Pasquale  
**Last name:** Levi  
**Date of birth:** 1St September 1955  
**Address:** V. E. D'Angio', 2 – 95125, CATANIA (IT)  
**Tel/fax:** +39-095-448681  
**Cell.:** 0339-7009112  
**e-mail:** plevi@tin.it  
**web:** www.andit.org  
**Fiscal code:** LVEPQL55P01C351X  
**VAT code (IVA):** 02307030870  
**Status:** married, a son and a daughter



### *Professional and educational titles:*

- master in Electronic Engineering (laurea), Pisa (1980), graduated 110/110 summa cum laude
- classic high school graduation (maturità classica), Liceo "Mario Cutelli" - Catania (1973)
- enabled (by public examination) to entitle as engineer, Pisa (1980)
- enrolled in the register of professional association of engineer #1856 (Ordine degli Ingegneri della Provincia di Catania) - November 1984
- enabled (by public examination) to teach Industrial Informatic at technical high schools
- master in "Business and administration" –FORMEZ (October 1985-July 1986)
- enrolled in the register of trainers of the agency which supervises all the schools in the province of Catania (Provveditorato agli Studi)
- enrolled in the register of trainers and consultants of Asymetrix (ToolBook) in Italy
- enrolled in the register of consultants of Provincia di Catania

### *Actual job:*

- industrial informatic consultant
- teacher of "Data transmission and processing systems" (Course of industrial informatic at technical high school ITIS "G. MARCONI" CT)

### *Most relevant professional experiences:*

**September 2000:** executive co-ordinator for training of administrators of Windows Nt net of the Sicilian prefectures

**February 2000 - August 2000:** provincial co-ordinator, technical advisor and central webmaster of the Project AetnaNet - thirty schools online for the autonomy

**September 1999:** selected by Learning On Line SpA as tutor for web based university .

**July 1999:** entrusted by INTECS Systems Spa for a technological review on technologies of e-business with Purchase Pro. Inc. - Las Vegas (USA)

**1999:** collaboration in a course of "Industrial informatic" Department of Informatic and Telecommunication, University of Catania

**1994 until now:**

designer, manager and teacher in ESF training courses (telematic, computer graphic, Windows, UNIX, Novell, ToolBook, industrial automation)

**1994**

invited by USDA (United States Department of Agriculture) as consultant for robotic in agriculture

**1990.. 1992**

consultant for the municipality of Catania with the responsibility of design and implementation of the informatic system of the technical office

**1989 .. 1992**

- director of Robotic & AI Division at C.R.A.M.(Consorzio per la Ricerca in Agricoltura nel Mezzogiorno ); R&D activity for application of new technologies to products and services for agricultural applications: robotic harvesting, automatic fruit grading, robotic handling and packaging;

Project manager of:

- AGENSUD project "Robot for automatic citrus harvesting";
- ESPRIT II project "GALATEA-Neural computing";
- ESPRIT III project "CONNY-Robot control based on neural networks";
- CONAMA project "Automatic videograding machine";
- new version of automatic orange squeezing machine;
- remote radio control system of digital systems;
- joint top-level educational project with FORMEZ, CYANAMID, SGS-THOMSON;
- responsible for the set-up and management of mechanic, electronic, software laboratories, office automation and LAN system;
- responsible for recruitment and development of technical human resources;
- member of the board and of the technical and scientific committee of C.R.A.M.

**1988**

management consulting interventions in several Sicilian industries in the R&D area

**1986 ..1989**

- consultant at A.I.D. SpA - Catania; Project manager for the development of a citrus robotic harvesting machine, delivering a prototype robot operating in the grove;
- project manager of the CONAMA project "Pneumoelastic end effector with microarm driven by artificial vision".

**1985..1986**

consultant for an ENIDATA project: implementation of financial pre-processor for a DSS

**1985**

organisation of training activity of ENIPMI, an educational agency

**1985**

technical consultant for office automation SO.F.IN. SpA. - Messina

### **1983 .. 1984**

senior hardware engineer at Selenia Spazio, Catania; project responsibility for the design of processor and control channel board for TDMA/DSI (time division multiple access/ digital speech interpolation) for earth station voice/data satellite channel (Intelsat / Eutelsat):

- hw/sw design of boards and equipment of a TDMA/DSI (time division multiple access/digital speech interpolation) for earth station of voice/data satellite (Intelsat /Eutelsat) network;
- management of technical interfaces, assistant of project management and coordination of junior engineer team;
- critical revision of DSI architecture from a wired prototype to a pcb prototype, with special attention to I/O channels;
- technologic review and improvement of components;
- design and implementation of board auto diagnostic;
- design and implementation of press-fit multipack backpanel of DSI;
- design of cabinet wiring;
- backpanel design of the redundant unit;
- design of the control board of the DSI redundant unit (switch over logic);
- design and implementation of the CPU board of DSI (cpu Z8002a/128 K memory);;
- test software design of central unit and implementation in assembly;
- central unit self diagnostic software design and implementation ;
- assistant for project definition and test of IESP board (signalling processor board) and PCMI board (2 PCM fdx link 2048kbs);
- management of interface to external firms committed to design and implementation of multilayer PCB;
- interface to Technical Office in order to define mechanical and thermal design of the equipment rack;
- interface to production unit as project manager of DSI development and test.

### **1980 .. 1982**

- junior hardware engineer at Olivetti, developing hardware and software modules for Ethernet LAN:
- hw/sw design of LAN modules;
- hw design of a 4 serial sync/async channels to 1 Ethernet LAN interface;
- evaluation of architectures for NIM modules and definition of a network node acting as file server; implementation of such a node with 8086 CPU amf MPM 86 OS;
- design of a private telex switch board for OA;
- system specification, design and implementation of a line interface board with CPU Intel 80186.

### **Pre-laurea experiences:**

#### **November 1979**

9 months fellowship at Olivetti (Ivrea) for preparing degree thesis about new LAN architectures, with special attention to Ethernet.

#### **December 1977**

One month stage in Sit Siemens laboratory in Castelletto (Mi) on “Electronic lab techniques”

## September 1976

One month stage in Sit Siemens laboratory in Castelletto (Mi) on “Telephony techniques and digital circuits”

### **Permanent and vocational training experiences:**

#### *Courses to qualify CIG employees:*

- “Operator of microelectronics devices production plants” designer, manager and teacher - ST Microelectronics (May 98 – July 98)
- “Technical of synthesis chemical plants” designer and teacher - Wyeth Lederle SPA (Dec. 97 – Feb. 98)

#### *Courses for teachers:*

- “Development of the intranet site of an educational institution and its integration in Internet” designer, manager and teacher -course for 30 web masters of the AetnaNet project (school network) – march 2000-appointed by Provveditorato agli Studi di Catania
- “Technologies of office automation and Internet for administrative personell of school ” – designer and tezcher - SMS VIRGILIO – PATERNO’ (CT), mar/apr 2000
- “Development of multimedia applications with Toolbook” teacher– SMS “Quasimodo” Florida (SR) – may 1999
- “Multimedia didactic application development”, “Excel” and “Advanced Word” designer, manager and teacher A.N.D.I.T., ITIS CANNIZZARO, appointed by Provveditorato agli Studi di Catania, May/Apr 1999
- “Office automation technologies” – teacher SMS VIRGILIO – PATERNO’ (CT), Jan/Apr 1999
- “Multimedia didactic technologies” – designers and teacher – 1A Project, ITIS S.CANNIZZARO CT, Jan 1999
- “Internet and multimedia technologies for didactics” teacher– SMS VIRGILIO – PATERNO’ (CT), Nov 1998
- “Multimedia technologies”, teacher - 1A Project - SMS RECUPERO CT – April 1998
- “Development of multimedia didactic application” designer, manager and teacher – A.N.D.I.T., ITIS CANNIZZARO, appointed by Provveditorato agli Studi di Catania, March 1998
- “Multimedia technologies for didactic” – designer, manager and teacher - A.N.D.I.T. , ITG VACCARINI, 1A Project, March 1998
- “Introduction to electronics for PCB development” designer and manager – A.N.D.I.T., SMS DON MILANI (Misterbianco), ex L. 216/91.
- “The laboratory of data processing and transmission” – designer, manager and teacher - ITIS CANNIZZARO Nov 1996 – CATANIA
- “Informatic, school and industry” L.S. E.Majorana – teacher - Sept 87 - San Giovanni La Punta (CT)

#### *Courses postdiploma MPI/EU:*

- “Technician of multimedia on line educational systems”– designer and manager , Jan-Jul 99 ITIS CANNIZZARO CATANIA
- “Technician of automation for agriculture and home” - teacher, June 98 ITIS FERRARIS ACIREALE

- “Technician of automatic industrial plants” designer, manager and tutor , 96/97 ITIS CANNIZZARO CATANIA
- “Technician of CAD/CAM systems” teacher, 95/96, ITIS FERMI GIARRE
- “Technician of computer automated industrial plants” designer, manager and tutor , 94/95, ITIS CANNIZZARO CATANIA

### *Courses ESF:*

- "Biotechnologies applied to environment recovery" – designer and teacher - ITIS S.Cannizzaro CT - january 2000
- “Experts in didactic planning and design” – teacher - Consorzio Multimedia – CATANIA – may 1999
- “CAD technician” – manager -Consorzio Tecnologie d’Impresa – 1995 RAGUSA
- “Expert in program management, monitoring, classification of environmental goods” – teacher -CESIS – 1995- CENTURIPPE (EN)
- “Expert in computer graphics and multimedia editor” - teacher - CSATI – 1995 – CATANIA
- “Expert in data communication” – teacher - ARCHÈ – 1995 – CATANIA
- “Expert for environment and territory safety” – teacher - POLIGEOTECNICI – 1995 – CATANIA
- “Technician of geotechnic laboratory and on site inspection” - teacher - POLIGEOTECNICI – 1995 – CATANIA
- “Expert in maintenance and recovery of historical building and monuments” – teacher - POLIGEOTECNICI – 1995 – CATANIA
- “Designer of media with multimedia support” – teacher -ISVES – 1995 – CATANIA
- “System manager of telematic plants” – teacher -IL LEONARDO – 1995 – CATANIA
- “Technician of marketing analysis” – teacher –ABIS - 1994 CATANIA
- “Expert in development of telematic system for remote training”- teacher - CSATI - 1994 - CATANIA
- “Designer of automated systems ” – manager – Consorzio tecnologie d’impresa – 1993 - RAGUSA
- “Expert of production systems” – manager - Consorzio tecnologie d’impresa – 1993 - RAGUSA
- “Technician of multiprocessor and real time systems” – teacher – ECAP – 1993 - ACIREALE (CT)
- “Expert of telematic systems” – teacher - IL LEONARDO – 1993 – CATANIA
- “Technician of computer based graphic and editor” – ISVES – 1993 – CATANIA
- “New informatic technologies in the analysis, data acquisition and management of territory” – SICART- 1990- CATANIA
- “Software engineering” – manager and teacher - CONAI – 1984 –CATANIA

### **Meetings:**

#### *Speaker in meetings concerning training and education:*

- “New multimedia technologies for didactic” - A.N.D.I.T. – (sponsor IBM e TELECOM) – April 1999 - PALERMO
- “ Postdiploma courses in the technical high school” A.N.D.I.T. – (sponsor La Tecnica della Scuola e FESTO) Dec 1998- CATANIA
- “Stop to school degradation ” XIII Distretto e Provv. Studi CT – April 1988- CATANIA
- “Technology innovation and technology transfer” – ARCI CCIAA – May 1986- MESSINA
- “The school for the information society” – CESAPS Un. CT – Nov 1985 – CATANIA

*Speaker in meetings concerning R&D:*

- Automatizacion y robotizacion en la agricultura, Valencia, June 90
- RoViSeC-7, Zurich, February 88
- AG ENG 88, Paris, March 88
- AIGR, Alghero, May 88

**Courses attended:**

*Training and education area:*

- Microsoft “Network Administration Windows NT”, march 1999 (selected directly from Microsoft for a nation level course of only 600 teachers)
- “Programmable microcontrollers and fuzzy logic” , October 1998 ITIS “ARCHIMEDE” CATANIA
- “Creativity and development of the interactive communication”, October 1998 – Oasi di Troina (EN)
- “Telecommunication systems using optical fibres in a digital environment” Nov 1997 – ITIS MARCONI CATANIA
- “High school: a link to profession, employment, social development and work” Nov 1997 Capranichetta ROMA
- “New frontier of didactic: multimedia and remote training” CNR, March 1997 CATANIA
- “The transmission of information” – ITIS G.FERRARIS, Sept 1996 – ACIREALE (CT)
- “The experimental project ABACUS” MPI, Apr 1996 –SALERNO
- “The ABACUS project ” MPI, Oct 1994 - SALERNO
- ”Technology innovation and school: new didactic methodology and professional profiles” ITIS FERMI, May 1985 - MESSINA

*R&D area:*

- "EMC design of PCB's and electronics modules" Don White Consultant Group, June 1984, London
- "35<sup>th</sup> annual conference and telecommunication exposition" International Communication Association, May 1982, New Orleans (Louisiana, U.S.A.)
- "Local computer networks" IFIP TC 6 international in-depth symposium, April 1982, Firenze
- "Scenery of informatic", Elea-Olivetti, Sept 1982, Burolo
- "The firm as economic aspect", Elea-Olivetti, Feb 1982, Burolo
- "Introduction to management techniques", Elea-Olivetti, April 1981, Burolo
- "Entering in the work world: the Olivetti group", Elea-Olivetti, Jan 1981 Burolo

**Publications:**

*Training and education area:*

- “The Italian school and the challenge of the third millennium” – Riforme e didattica – March 1999
- Book “Informatic for everyone” – Apogeo - nov 1999
- Book “S.O.S Informatic- A guide to Project 1A” –Cappelli Editore – Feb 1999
- “Teachers and computer”- ScuolaInsieme- Nov 1997
- “Technology innovation at school” – Unione - March 1986
- “School and informatic” - La Tecnica della scuola –Sept 1985

*R&D area:*

- Allotta, Buttazzo, Dario, Quaglia, Levi P. "A force/torque sensor-based technique for robot harvesting of fruit and vegetables" Proc. of IROS '90, Tsuchiura, Japan, July 1990.
- Levi P, Pappalardo R. "Citrus harvester prototype developed with PDOS" – PDOS Softtalk & Hardfacts – September 1988
- Levi P.- Falla A. -Pappalardo R. "Image controlled robotics applied to citrus fruit harvesting" Proc. RoViSeC-7, Zurich, Feb.88
- Levi, Pappalardo "An automatic machine for orange grading" Proc. of IARP - Avignon, France, June 1990
- "Critical survey of NIM and proposal for a NIM of C-NET" , C-NET project C.N.R., February 1988
- Blandini G., Levi P. "First approaches to use of a robot for citrus fruit harvesting"- Proc.IV Convegno Nazionale AIGR, Alghero, May 88
- Harrell R.C., Levi P. "Vision controlled robots for automatic harvesting of citrus " AG ENG 88, Paris, March 88

*Internal documents:*

- "Critical survey of NIMS and a proposal for C NET", Levi - February 1980, Olivetti/C.N.R.
- "BCS LAN: hardware of communication subsystem", Brillante/ Levi/ Ossola/Prelle, - May 1980, Olivetti D.R.A.S.
- "Interface between host computer e data transmission media in locally distributed systems", Levi - June 1980, Olivetti D.R.A.S./Università di Pisa
- "Firmware NIM80: technical and functional description", Levi/DiCastro - October 1981, Olivetti D.R.A.S.
- "Olteco LAN connection of a system based on i SBC 86/12A: plan of objectives and resources", Levi/Losacco - February 1982, Olteco
- "Technical proposal for connecting in LAN OLTECO a server node with the extension of the interface based on NIM-S", Levi - December 1982, Olteco
- "ICM actuation subsystems", Levi - December 1982, Olteco
- "DSI Intelsat/Eutelsat: prototype 0 development status and PCB road map", Barresi/Giarrizzo/Levi/Lopes/Valenti - April 1983, Selenia Spazio
- "Board documentation backpanel rev.I", Levi – March 1983, Selenia Spazio
- "Board documentation : wire front end rev.I", Levi - August 1983, Selenia Spazio
- "Redundancy management" Levi - October 1983, Selenia Spazio
- "Board documentation: switch over logic", Levi - October 1983, Selenia Spazio
- "Test documentation: switch over logic" Levi - November 1983, Selenia Spazio
- "Central Unit documentation", Levi - December 1983, Selenia Spazio
- "Technical/functional central unit documentation", Levi - December 1983, Selenia Spazio
- "DSI base unit backpanel short form", Levi - February 1984, Selenia Spazio
- "DSI: implementation aspects" Levi - March 1984, Selenia Spazio
- "Board documentation: central unit rev.2", Levi/La Monica - April 1984, Selenia Spazio
- "Technical/functional documentation: central unit rev.2", Levi/La Monica - May 1984, Selenia Spazio
- "Board documentation: wire front end rev.2", Levi - August 1984, Selenia Spazio
- "DSI rev.2 activity plan", Levi/Russo - August 1984, Selenia Spazio
- "Board documentation: switch over logic rev.2", Levi/Caruso - September 1984, Selenia Spazio

- "Test documentation: central unit", Levi/Caruso - September 1984, Selenia Spazio
- "Software documentation; central unit autodiagnostic", Levi/Iacona - September 1984, Selenia Spazio
- "A robot for automatic citrus harvesting", Levi - July 87, AID SpA
- "Pneumoelastic end effector with force torque sensors for fruit harvesting", Levi-Pappalardo - July 90, AID SpA
- Project and administrative documentation of all the above referred AGENSUD, CONAMA, ESPRIT, EUREKA, ESF, FESR projects

NOTE: the internal documents are property of the firm for which they have been produced and cannot be disclosed without written permission of the firm.

### **Management experiences:**

- member of the Scientific Technical Committee of the Project AetnaNet - thirty schools online for the autonomy - 2000
- president of A.N.D.I.T. – “National Association of Informatic and Telematic Teachers”, 1997 - 2000
- member of school, quality and training committees of Ordine degli Ingegneri – CT, 1997/99
- vice-president of "Il Leonardo" a cultural no profit association , since 1995
- member of the board of technical high school ITIS “CANNIZZARO”, 1993-1996
- director of laboratory of “ Data transmission and processing systems” - ITIS “CANNIZZARO”, since 1989.
- member of the technical scientific committee of C.S.A.T.I., a consortium for application of new technology in the telecommunication area,1990- 1992;
- member of the board and technical scientific committee of C.R.A.M, consortium for research in agriculture, 1990 - 1992;
- director of Robotic & AI Division at C.R.A.M.(Consorzio per la Ricerca in Agricoltura nel Mezzogiorno ) 1990-92;
- member of the board and technical scientific committee of Catania Ricerche, national consortium of R&D, 1989- 1992
- managing director of "C.R.E.F.T.A", a consortium for professional training and R&D promoted by FESTO SpA, 1991-1992;
- procurator for AIDC Inc (USA subsidiary of AID SpA)
- member of the board of CITEGA. (Consortium between Sicilian software houses).
- member of TC 184 ISO committee (Industrial automation) - 1992

### **Patents:**

- Patent of a pneumoelastic video driven end effector for citrus harvesting

### **Prizes:**

- First prize at concourse of editor Tramontana , Nov 1996 for the multimedia CD ROM “The genetic engineering”

### **Technical skills:**

- development of digital hardware with microprocessors for telecommunication and automation;
- development of real time operating systems;
- development of application software for telecommunication and automation;
- C++, Visual Basic, Assembler in DOS/UNIX environment;
- hardware instrumentation and software tools for microprocessor systems development;
- advanced application with neural networks;
- Ms Office applications
- multimedia applications with Multimedia ToolBook
- web site development with Front Page
- Windows NT/2000 server/workstation implementation and administration

### **Foreign languages:**

Good knowledge of written and spoken English, studied in USA and improved during many abroad work travels.

### **Management skills:**

- management of medium size (30 people) technical group with mixed expertise in mechanics, electronics, software;
- technical and administrative management of projects funded by national and EEC organisations (ESPRIT, ESF), up to 3 million dollars/y.
- experience as member of boards and technical scientific committees, managing director.
- management of ESF training projects;
- technical survey for informatic project

### **Press citation:**

- “Wind of Sicilian technology”, Capitale sud, Feb 92 - G. Pepi
- “A robot for the oranges”, Vivere, Oct 91 – G. Pepi
- “Proposals at Ciosta-Cigr V meeting”, M&MAIMA, n.2 ‘91 - Stefano Bechis
- “Catania, start of an artificial intelligence project”, Il Sole 24 Ore, Jan 92 – G. Pepi
- “A robot made at home”, Corriere della Sera, Nov 91 - Tito Gaudio
- The book “SOS Informatica” has been positively reviewed by DEV, PC interactive, May 99

**I authorise data management as prescribed by Law 675/96 .**

PROF. ING. PASQUALE LEVI