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# Curriculum vitae et studiorum

## Santi Calderone

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### PERSONAL DETAILS

*Marital Status:* Married  
*Nationality:* Italian  
*Date of birth:* 11 November 1960  
*Place of birth:* San Filippo del Mela (Messina)  
*Address:* Piazza Capri, 1 - 00141 ROME (ITALY)

### EDUCATION

*October 1979 - February 1985*

**Polytechnic of Turin**  
Turin

- I received the Degree (Laurea) in electronic engineering on February 22, 1985 with result 110/110 cum laude.

*October 1974 - June 1979*

**Liceo Scientifico Statale "A. Meucci"**  
Milazzo (Messina, Italy)

- I received the "Maturità scientifica" in 1979 with result 60/60.

### COMPANY RESPONSIBILITY

*March 8<sup>th</sup> 2002 – April 30<sup>th</sup> 2004:*

**Member of the Board of directors of the ANTECH S.p.A.**

*March 29<sup>th</sup> 2000 – May 7<sup>th</sup> 2001:*

**Member of the Board of directors of the ANTEL Telecommunication International Ltd (UK).**

*September 1996 – September 1998:*

**Member of the Board of directors of the ANTECH S.p.A.**

EMPLOYMENT  
HISTORY

*March 2006 – now*

**iDirect Italy S.r.l. (a branch of VT iDirect, Inc.)**

Rome

- I am employed as Senior Systems Engineer of the Italian Branch of VT iDirect, with the main responsibility of the Southern Europe territory, as a member of the European Team of Systems Engineers. I have to proactively assist with the technical aspects of all sales activities for customers within the assigned territory. The Essential Duties and Responsibilities are:
  - Work closely with Sales Executives and Channel Development Managers for their assigned territories to identify opportunities for iDirect solutions,
  - Act in a consultative role to customers and partners designing satellite-based IP networks,
  - Ability to create presentations and white papers as needed,
  - Perform technical presentations to customers and partners,
  - Perform equipment demonstrations and lab testing of network solutions,
  - Assist in the development and generation of formal sales proposals to ensure technical accuracy,
  - Act as an interface between the customer or partner and iDirect, Inc. on all technical issues.
  - Provide Technical Feedback to iDirect Product Marketing.

*January 2000 – February 2006*

**ANTECH S.P.A.**

San Giovanni La Punta (Catania)

- I was employed as Senior Project Manager for Satellite Systems Development of Antech S.p.A.. This Company operates in the field of the Satellite transmission Systems for digital television broadcasting and data transmission. My work consists of the management of the technical / commercial activities related to the Up-link Systems, satellite digital networks Terminals and research programs. The activities under my responsibility started with the initial contacts with the potential Customer or financial organization and continue with the technical/cost analysis for the System or the Research activity to be proposed, finalized to the issuing of the technical and commercial proposal. If the contract was awarded, I could also had the responsibility for the management of the project from the cost/time/technical point of views.
- My secondary activities were in the field of the electromagnetic compatibility for the installation of: Satellite Up-link Stations; Terrestrial Radio Link; UHF/VHF/HF Transmitting Stations. In particular, the activities consisted of the analysis of the “intra-system” compatibility between the multiple equipment to be installed in the same location and the compliance of the transmitting equipment to the legislative rules related to the maximum electromagnetic radiation compatible with the human health.

*February 1995 – January 2000*

**ELMER S.p.A. (a Marconi Communications Company, now SELEX Elsag):**

Pomezia (Rome)

- I was the Technical Project Manager for Terrestrial and Satellite Systems Development, with the responsibility of the following main projects :
  - ◇ Low capacity Airborne, Naval and Man-Pack Satellite Terminals in UHF and SHF bands for Army, operating in TDMA/DAMA, SCPC/DAMA and FDMA/PAMA Networks.
  - ◇ Satellite Terminals in SHF band for Navy, operating in CDMA and FDMA/PAMA Networks.

- ◇ Microwave (7.75 - 8.50 GHz) 2 Mb/s DQPSK - Line of Sight Radio Link System for interconnecting RADAR Site with Airport Control Site;

*February 1991 - February 1995*

**ELMER S.p.A. (an ALENIA Company, now SELEX Elsag):**

Pomezia (Rome)

- I was recruited as Head of Microwave and Millimeter Waves Equipment Development Laboratories, with the responsibility of the management of nine people activities, yearly budget and the following main projects :
  - ◇ Millimeter wave (37.5 - 40 GHz) 2 Mb/s FSK - Line of Sight Radio Link ;
  - ◇ Microwave (1.35 - 1.85 GHz) 256 Kb/s - 2 Mb/s FSK - Line of Sight Radio Link with ECCM Capabilities (Military Application);
  - ◇ Microwave (1.35 - 1.85 GHz) 2 Mb/s FSK - Line of Sight Radio Link (Non-military Application) ;
  - ◇ Microwave (4.4 - 5.0 GHz) 34 Mb/s DQPSK - Line of Sight Radio Link.

*January 1989 - February 1991*

**CONTRAVES Italiana S.p.A. (an OERLIKON Company, now Rheinmetall Italia S.p.A.):**

Rome

- I was the Head of Antenna Development Laboratories with the responsibility of the management of seven people activities, yearly budget and the following main projects :
  - ◇ Phased Array Antenna for 3D Search RADAR operating at 8.5 - 9.6 GHz;
  - ◇ Millimeter wave Horn Antennas for Satellite Experimentation.

*April 1986 - January 1989*

**CONTRAVES Italiana S.p.A. (an OERLIKON Company, now Rheinmetall Italia S.p.A.):**

Rome

- I was recruited as Antennas and feeder Engineer for Radar Systems and employed in the following main projects :
  - ◇ Deployable Dual Offset Parabolic Reflector Antenna for Tracking RADAR operating in Ku band and installed on a Armed Missile;
  - ◇ X band corrugated Horn Antenna.

*August 1984 - September 1984*

**HELLENIC TELECOMMUNICATION ORGANISATION:**

Athens (Greece)

- I spent a training stage period in the International Telephonic Exchange Center.

RESEARCH  
ACTIVITIES  
(papers)

2000 – 2005:

**ANTECH S.P.A.**

- *"Inclined Orbit Satellite Tracking from Mobile Antennas using Interval Regression and Neural Networks"*, sent on 25<sup>th</sup> January 2005 for the publication on "Applied Mathematical Modeling";
- *"Ka Uplink Station for Skylogic Design Criteria and Earth Station Engineering"*, accepted for 10th Ka and BROADBAND COMMUNICATIONS CONFERENCE, October, 2004, Vicenza, Italy;
- *"Hybrid Star/meshed satellite digital Network in Ka/Ku band"*, accepted for 9th Ka and BROADBAND COMMUNICATIONS CONFERENCE, November 5-6-7, 2003, Island of Ischia, Italy;
- *"The emissions in the Satellite Stations and the electromagnetic pollution"*, Meeting on "The electromagnetic Pollution" organized by the Experimental Radio-electric Center "Guglielmo Marconi", 4 October 2002, SatExpo 2002 Vicenza.

1987 - 1989

**CONTRAVES Italiana S.p.A.**

Rome

- *"Phase only Synthesis of Array"*, National Meeting on the image Reconstruction with Acoustic Waves and Electromagnetic Technologies", 29 - 30 June 1987, S. Agata sui due Golfi, Sorrento (NA);
- *"Single Conical Reflector Antenna fed by a Cluster of linear Arrays"*, Seventh National Meeting of Applied Electromagnetism, 6 - 7 - 8 September 1988, Rome;
- *"Analysis and Design of Cylindrical Conformal Arrays"*, International Conference on Electromagnetics in Aerospace Applications, 12 - 15 September 1989, Politecnico di Torino, Torino.

1983 - 1985

**POLYTECHNIC OF TURIN - Department of Electronics**

Turin

- *"Study of the Waves Propagation in a not Homogenous medium by the Quasi-Particles method"*, Fifth National Meeting of Applied Electromagnetism, 9 - 12 October 1984, Saint Vincent;;
- *"Beam Propagation in the Ocean: Quasi-Particle Approach"*. IEEE Journal of Oceanic Engineering, July 1985, volume OE-10 number 3, pag. 199;
- *"Quasi-Particle Approach of the Radiation from Apertures"*, 1985 North American Radio Science Meeting and International IEEE/AP-S Symposium, 17 - 21 June 1985, University of British Columbia, Vancouver, Canada;
- *"Tropospheric Beam Propagation: Quasi-Particle Approach"*, International Symposium on Antennas and EM theory (ISAE'85), 26 - 28 August 1985, Beijing, China.

MILITARY  
SERVICE

February 1985 - April 1986

**ITALIAN ARMY - "ARMA DEI CARABINIERI" :**

Turin

- I was recruited (obligatory military service) as "Carabiniere Ausiliario" c/o "Centrale Operativa del Gruppo Carabinieri di Torino" employed in the development of software on personal computer for the management of army personnel and documents.

CONSULTANT

1986 – 2003:

## ACTIVITY

### **Antech S.p.A.**

Catania

- Resources Management and Activity Planning for a new Company manufacturing D.B.S. (Direct Broadcasting Satellite) Equipment;
- Identification of the measurement instruments for a new electronic laboratory and anechoic chamber;
- CAT (Computer Aided Testing) Software for electronic measured data acquisition, elaboration and graphical presentation;
- Analysis of the performances degradation due to mechanical deformation of a offset parabolic reflector antenna (2.4 meters) in Ku band;
- Near Field Synthesis of the shaped reflector for millimeter waves (94 GHz) RADAR Antenna;
- Preparation of a Technical Proposal for "*Broadcast System and Antennas for millimeter waves cellular TV*".

### **Pragma EDP:**

Milazzo (Messina)

- Conversion of proprietary Software from GWBASIC interpreted language to QuickBASIC 4.0 compiled language;
- Design of a Protection method for avoiding the unauthorized copy of proprietary Software installed on customer Hard disk;
- Conversion of proprietary Software from MS-DOS Operating System to XENIX Operating System.

### **Other:**

- Software for statistical analysis of the passengers and goods carried by naval fleet for ship-owner control purpose;
- Software for tickets issuing and reservations management for maritime transportation;
- Design and Structural analysis of hangar for industrial application.

## QUALIFICATION

1985

### **Polytechnic of Turin**

Turin

I received the Government qualification for the profession of engineer.

## LANGUAGES

- Good Spoken/written: English;
- Working knowledge: French.

## OTHER INFORMATION

- Inscription in the "*Board of the engineers in the province of Rome (Italy)*";
- Driving license class B.

## PRIZES

### 1986

- Prize "L. Rossi" awarded by "Elettronica San Giorgio - ELSAG S.p.A.", Genova, Italy, for the paper "*Beam Propagation in the Ocean: Quasi-Particle Approach*". With the following definition: "Very significant content from the theoretical and methodological point of view, for the description of underwater acoustic phenomena. It is rewarded the great scientific value of the work that develops new methods for the study of these phenomena".

### 1984

- Prize awarded by "The Institute of Electrical and Electronics Engineers, Inc. (IEEE)" for meritorious activity in the Field of Electrical Engineering done by students of the Polytechnic of Turin.

## SOFTWARE KNOWLEDGE

### Operating Systems and Programming Languages:

- Programming languages: FORTRAN, BASIC, CLIPPER, and SUPERBASE.
- Operative Systems: WINDOWS 3.11/95/98/ME/2000/XP (PC), MS-DOS (PC), XENIX (PC), SOLARIS (SUN SparkStation), VMS (VAX), RSX-11M (PDP11), AEGIS (Apollo DN4000) and RTE-6 (HP1000).

### Programming Experiences:

- Database;
- Computer Aided Testing (HP 8510, Test Range Scientific Atlanta);
- Antennas and Propagation;
- Structural analysis and design by Finite Element Method.

### User Experiences:

- MS-Office 2007 Professional;
- MS-Project (project management);
- SalesForce.com
- Timeline (project management);
- Lotus Notes;
- Quattro Pro;
- Lotus 123;
- Autocad;
- Microwave System and Circuits analysis and synthesis Package HP-EESOF;
- MathCAD;
- SatMaster;
- Adobe Acrobat Professional