

PERSONAL INFORMATION

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silvestri.salvatore.ing@gmail.com  
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Sex: m | Date of birth: \*\*\*\*\* | Nationality: Italian

WORK EXPERIENCE

high school teacher

September 2018 - Currently

Ministero dell'Istruzione dell'Università e della Ricerca (MIUR)

- teaching of mathematics and physics

Business or sector: educational

freelance engineer / programmer

September 2018 - Currently

Ministero dell'Istruzione dell'Università e della Ricerca (MIUR)

- Hardware and software development

Business or sector: customer application fields

engineer / programmer

January 2019 – July 2019

ASCIA  
Department of Physics - University of Rome "La Sapienza"

- design and implementation of algorithms for the Bit Error Rate (BER) evaluation
- Software GUI implementation for evaluation test
- Network interface design and management

Business or sector: research and development  
TOPPP project - "Trasmissione Ottica Punto a Punto in Polarizzazione"

engineer / programmer

April 2015 – August 2018

Crestoptics S.p.A.

- VCS drivers Implementation
- Crest-VCS SDK implementation
- Super Resolution techniques implementation
- Hardware interface
- Software GUI implementation
- CUDA programming

Business or sector: research and development

engineer / programmer

September 2014 – April 2015

Crestoptics S.p.A.

IIT – Istituto Italiano di Tecnologia - University of Rome "La Sapienza"

- Super Resolution techniques implementation
- Hardware interface
- Software GUI implementation
- CUDA programming

Business or sector: research

**teacher**

September 2010 - July 2018

Istituto Tecnico Industriale "A. B. Nobel", via V. G. Galati, 99/B, 00155, Roma

- teaching of mathematics and physics

**Business or sector:** educational**researcher**

February 2013 – September 2014

Department of Physics - University of Rome "La Sapienza"

- 3D Scan techniques implementation
- Hardware interface
- Software GUI implementation
- CUDA programming

**Business or sector:** research**researcher**

March 2002 – September 2012

ISS - Istituto Superiore di Sanità

- Design and implementation of electronic systems (analogic and digital)
- Design and implementation of Telemedicine systems
- Firmware implementation
- Software GUI implementation
- OpenGL programming
- 3D Volume Graphics systems implementation
- Data processing
- Networking systems

**Business or sector:** healthcare**Technical Consultant (CTU)**

November 2010 – March 2011

Procura della Repubblica, Tribunale di Brindisi

- technical expertise of medical device

**Business or sector:** jurisprudential**EDUCATION AND TRAINING**

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**PhD in Electrical and Electronic Engineering**

July 2017

University of L'Aquila, Italy

thesis title: Parallel computation for structured light microscopy

**certificate of attendance**September 2012 -  
November 2012

ANGQ – Associazione Nazionale Garanzia della Qualità

- Norm UNI EN ISO 14971:2009
- Directive 90/385 CEE
- Directive 93/42 CEE
- Norm UNI EN ISO 19011
- Norm UNI EN ISO 9001
- Norm UNI EN ISO 13485

### Specialization for the activity of teaching support for disabled students – AD01

University of Lazio - SSIS

March 2010

- Education and Special Education
- psychology of disability
- neuropsychology
- neuropsychiatry

### Qualifications for the teaching of Mathematics (A047) in high school

University of Lazio - SSIS

November 2009

- Education and Special Education
- Pedagogy
- Teaching
- Teaching of mathematics
- Evolutionary psychology
- History of the school

### Qualifications for the teaching of Physics (A038) in high school

University of Lazio - SSIS

May 2009

- Education and Special Education
- Pedagogy
- Teaching
- Teaching of physics
- Evolutionary psychology
- History of the school

### Qualifications for the teaching of Mathematics and Physics (A049) in high school

University of Lazio - SSIS

May 2009

- Education and Special Education
- Pedagogy
- Teaching
- Teaching of mathematics and physics
- Evolutionary psychology
- History of the school

### Professional license to engineering profession

University "Tor Vergata" of Rome

February 2003

### Degree in Electronic Engineering, 103/110

University "La Sapienza" of Rome

March 2001

- Final vote: 103/110

PERSONAL SKILLS

Native language Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	A2	A2	B1
Replace with name of language certificate. Enter level if known.					
French	A2	B1	A2	A1	A2
Replace with name of language certificate. Enter level if known.					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills ▪ good communication skills gained through my work experience as engineer and teacher

Organisational / managerial skills ▪ good organizational skills gained through my work experience as engineer and teacher

Job-related skills ▪ good command of technological processes  
▪ good command of systems interfaces  
▪ good command of firmware programming  
▪ good command of ARDUINO programming

Computer skills ▪ good command of 3D programming  
▪ good command of CAD Softwares  
▪ good command of C++ programming  
▪ good command of CUDA programming  
▪ good command of Database design, implementation and programming

Driving licence ▪ A  
▪ B

ADDITIONAL INFORMATION

Honours and awards Degree award on topics related to the Handicap, conferred by the University of Rome "La Sapienza".

Memberships Member of the Order of Engineers of Rome since 2009

<p>Publications</p>	<p><i>"Diffraction-free light droplets for axially-resolved volume imaging"</i>, Antonacci, G., G. Di Domenico, S. Silvestri, e E. DelRe. Scientific Reports - Nature, 2017.</p> <p><i>"Miniaturized photogenerated electro-optic axicon lens Gaussian-to-Bessel beam conversion."</i>, Di Domenico, G., J. Parravicini, G. Antonacci, S. Silvestri, A.J. Agranat, e E. DelRe. Applied Optics 56 (2017): 2908-2911</p> <p><i>"Collaborative environment for Clinical Audit by integration of Surface Computing, 3D Dynamical Visualization and Imaging Fusion technique"</i>, A. Palombo, M. La Scaleia, <u>S. Silvestri</u>, G. D'Avenio, C. Daniele, M. Grigioni. Secondo Congresso Nazionale di Bioingegneria (Congresso GNB2010). Torino. July 08-10, 2010</p> <p><i>"Electromyographic audio biofeedback for telerehabilitation in hospital"</i>. Rogante M, <u>Silvestri S.</u>, Grigioni M, Zampolini M. Journal of telemedicine and telecare. 2010/06/01.</p> <p><i>"Pneumatic Test Device for the Accurate Assessment of Pressure Sensor"</i>. C. Giacomozzi, G. De Angelis, M. Paolizzi, <u>S. Silvestri</u>, V. Macellari. World Congress on Medical Physics and Biomedical Engineering. Munich, Germany, September 07-09, 2009.</p> <p><i>"Telemonitoring of Motion Related Quantities in a Telerehabilitation Service"</i>. S. Silvestri, M. Rogante, C. Giacomozzi, A. Fadda and V. Macellari. (Conference proceedings) ETC 2006, 26th European Telemetry Conference. May 2-5, 2006. Garmisch, Germany.</p> <p><i>(Relatore) "The ITACA project: models, architectures and prototypes for health-care delivery continuity"</i>. <u>S. Silvestri</u>, M. Rogante, M. Bufano, A. D'Aquila, M. Frusciane, F. Paone, R. Giampieretti and V. Macellari. EMBEC 2005, 3<sup>rd</sup> European Medical &amp; Biological Engineering Conference. Prague (Czech Republic), November 20-25, 2005.</p> <p><i>"Integration of Monitoring and Motor Training Units for a Tele-Rehabilitation Service"</i>. M. Rogante, <u>S. Silvestri</u>, M. Bufano, F. Paone, V. Macellari. Telemed &amp; eHealth '05: meeting healthcare challenges. London (U.K.), November 28-28, 2005.</p> <p><i>(Relatore) "A telematic infrastructure to overcome fragmentation of the health-care delivery process: the ITACA project"</i>. <u>S. Silvestri</u>, M. Rogante, M. Bufano, F. Paone, M. Fruscione, R. Giampieretti, V. Macellari. e-Government &amp; e-Health 2<sup>nd</sup> International Conference, Desio (MI), July 8-10, 2005.</p> <p><i>(Relatore) "Applicazione per la telerabilitazione"</i>. <u>S. Silvestri</u>. La telemedicina e la continuità dell'assistenza. Workshop organizzato dall' Istituto Superiore di Sanità in collaborazione con il Consiglio Nazionale delle Ricerche. Roma, 13 Aprile 2005.</p> <p><i>La realtà e le prospettive della telemedicina in ambiente montano</i>. M. Rogante, S. Silvestri, R. Bedini, V. Macellari. Quaderni della Montagna vol. 7, Bonomia University Press. (in press). ISBN 88-7395-000-0</p> <p><i>(Relatore) "The ITACA project: a telemedicine infrastructure for the continuity of health care"</i>. <u>S. Silvestri</u>, M. Rogante, M. Bufano, M. Frusciane, V. Macellari. EuroPACS-MIR 2004, 22nd International Conference of EuroPACS and MIR (Management In Radiology). Trieste, September 16-18, 2004.</p> <p><i>(Relatore) "ITACA: a telemedicine infrastructure to support health care continuity"</i>. <u>S. Silvestri</u>, M. Rogante, M. Bufano, F. Paone, M. Frusciane, R. Giampieretti, S. Rinaldi, V. Macellari. MEDICON 2004, X Mediterranean Conference on Medical and Biological Engineering. Ischia, Naples July 31-August 5, 2004.</p> <p><i>"Telerehabilitation: how the ongoing ITACA project will support this specific aspect of home-care"</i>. M. Rogante, <u>S. Silvestri</u>, M. Bufano, F. Paone, V. Macellari. MEDICON 2004, X Mediterranean Conference on Medical and Biological Engineering. Ischia, Naples July 31-August 5, 2004.</p>
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In compliance with the GDPR and the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.

Data: 14/01/2022

Firma: 