

## PERSONAL INFORMATION

## Silvano Bertoldo



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🌐 [www.silvanobto.it](http://www.silvanobto.it)

Sex M | Date of birth 30/04/1983 | Nationality Italian

## CURRENT POSITION

(February 2019–  
February 2020)

R&D, Software – Firmware developer

3ntr, Additive Manufacturing Systems, (Jdeal-form s.r.l.), Oleggio (NO).

(Software and firmware developer for 3d printers, related equipment and additive manufacturing systems, equipment configuration, sensors choice and programming).

## WORK EXPERIENCE

January 2014 –  
February 2019

**Research Fellow**

Department of Electronics and Telecommunications (DET), Politecnico di Torino, Torino (Italy).

Member of the Local Research Unit of CINFAI at the Polytechnic of Turin

**Business or sector:** Remote sensing, Radar meteorology, Radar technologies, WSN technologies, Environmental Monitoring, Electromagnetic Field and Propagation Measurements .

2008 – 2018

**Lecturer**

Lecturer at Politecnico di Torino, Italy.

- Electromagnetic Fields (2017-2018).
- Radar and Remote Sensing (2014-2015).
- Radio Planning (2017-2018).
- Numerical computation (2012).
- Laboratories of Electromagnetic Fields (2008)

January 2011 –  
December 2013

**Researcher – Ph. D. Student**

Apprentice at Envisens Technologies s.r.l., Torino (Italy). within the project “Acquisizione del titolo di Dottore di Ricerca in Alto Apprendistato” with Regione Piemonte.

**Business or sector** Remote sensing, Radar meteorology, Radar technologies, WSN technologies, Research, ICT, Software development, Scientific communication.

November 2009 –  
December 2010

**Researcher**

Istituto Superiore Mario Boella (ISMB), Torino – Remote Sensing Group (RSG) Politecnico di Torino – Envisens Technologies s.r.l., spin-off of Politecnico di Torino, Torino (Italy)

**Business or sector** Remote sensing, Forest fire monitoring, Thermography, Radar technologies, WSN technologies, Research, ICT, Software development.

June 2008 –  
May 2009 **Analyst programmer**  
Sinapsi s.r.l., Torino (Italy)  
**Business or sector** ICT, ERP programming

February 2008 –  
May 2008 **Researcher**  
Istituto Superiore Mario Boella (ISMB), Torino (Italy)  
**Business or sector** Remote sensing, Forest fire monitoring, Thermography, Software development

May 2005 –  
July 2005 **Intern**  
Azienda Regionale per la Protezione Ambientale (ARPA) Piemonte.  
**Business or sector** Research and environmental protection, Electromagnetic field measurement

## EDUCATION AND TRAINING

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January 2011 –  
December 2013 **Ph. D. In Electronics and Communications Engineering**  
Politecnico di Torino, Torino, Italy  
*Thesis title: "X-band mini weather radar network and other wireless sensor networks for environmental monitoring".*

September 2005 –  
January 2008 **Master Degree in Telecommunication Engineering (Laurea Specialistica)** 110/110  
Politecnico di Torino, Torino, Italy  
*Thesis title: "Analisi di un modello radiometrico e sviluppo e collaudo di un sistema antincendi boschivi in ambiente alpino".*

September 2002 –  
September 2005 **Bachelor Degree in Telecommunication Engineering (Laurea di Primo Livello)** 110/110  
Politecnico di Torino, Torino, Italy  
*Thesis title: "Tecniche di valutazione dell'esposizione al campo elettromagnetico in presenza di segnali DVB-T e DVB-H".*

September 1997 –  
July 2002 **High School (Diploma in Perito Industriale Capotecnico Informatico)** 60/60  
I.T.I.S. (Istituto Tecnico Industriale Statale) "A. Avogadro", Torino, Italy

## OTHER TRAINING

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30<sup>th</sup> May 2017 **Workshop "How to use social media for your research activity"**  
Politecnico di Torino, Torino, Italy

5<sup>th</sup> – 6<sup>th</sup> December 2013 **Short course "The Essentials of ITS"**  
ITS-EduNet, Politecnico di Torino, Torino, Italy

16<sup>th</sup> – 20<sup>th</sup> September 2013 **International Summer School on Atmospheric and Oceanic Sciences – Weather Forecasting (ISSAOS 2013)**  
CETEMPS, University of L'Aquila, L'Aquila, Italy

- 12<sup>th</sup> – 19<sup>th</sup> July 2013 5<sup>th</sup> International Summer School on Radar/SAR  
Fraunhofer FHR, Rolandseck, Bonn, Germany
  
- June 2013 Basic Training Course for Pilot of Drones. Patent No EU20130005  
Eurodrone Flight Systems, Personal Soft s.a.s., Boves (CN), Italy
  
- 19<sup>th</sup> – 22<sup>nd</sup> September 2012 Spatial Multicriteria Analysis for Environmental Decision Making (SMCA 2012)  
Università di Trento, Trento, Italy
  
- 9<sup>th</sup> – 12<sup>th</sup> July 2012 Summer School SIPD (Scuola Inter-Politecnica di Dottorato)  
Politecnico di Torino, Torino (Italy)
  
- January 2010 – June 2010 Corso di Perfezionamento in Ingegneria dello Sport  
Politecnico di Torino, Torino (Italy)
  
- 26<sup>th</sup> – 31<sup>st</sup> October 2009 WCM (World Class Manufacturing) Settore Qualità  
GI Group, Formatemp, ISVOR FIAT, Torino (Italy)

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B1	B1	B1
PET (Pass with Merit)					
German	A1	A1	A1	A1	A1
No certificate for German					

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

- Job-related skills
- Problem modelling and solving
  - Software development
  - Arduino
  - Electromagnetic field measurement and evaluation
  - Propagation models (indoor and outdoor)
  - Radar systems
  - Weather radar and weather radar data analysis
  - Remote sensing techniques
  - Environmental monitoring techniques
  - Wireless Sensor Networks
  - Forest fire monitoring
  - Thermography
  - Network management
  - Electronic measurements
  - GNSS
  - Team coordination
  - Scientific communication (especially for what concern technical conferences and journals)

- Computer skills**
- Operative Systems (Windows: XP, Vista, 7, 8, 10 – Linux: Ubuntu, Debian)
  - ARM programming with Ubuntu
  - HTML, PHP, Javascript
  - Matlab, C, C#, C++, Python, Visual Basic, Java, Asp.net
  - Object Oriented Programming
  - .Net framework
  - MySQL and base knowledge of Postgres SQL and SQL Server
  - Microsoft Office, Open Office, Libre Office.

## OTHER INFORMATION

### SOCIETIES AND ASSOCIATIONS

- Member of Expert Working Group “Lidar and Radar Observation” of European Facility for Airborne Research (EUFAR), since 2017.
- European Geosciences Union (EGU) member since 2016.
- Società Italiana di Elettromagnetismo (SIEm) member since 2014.
- International Sport Engineering Association (ISEA) full member, 2010-2012.

### SCIENTIFIC CONTRIBUTIONS AND COLLABORATIONS

- Author or co-author of more than 30 papers published on international scientific journals and proceedings of international conferences.
- Convener and chairman of the session “AS 5.11 Meteorology and Internet of things” at European Geoscience Union General Assembly 2018 (EGU2018).
- Chairman of the session “AS1.16/CL2.04/HS11.6 Precipitation: Measurement, Climatology, Remote Sensing, and Modelling (Co-organized) – Poster session” at European Geoscience Union General Assembly 2018 (EGU2018).
- Chairman of the session “AS 1.8 Precipitation: Measurement, Climatology, Remote Sensing, and Modelling (General Session) – Poster session” at European Geoscience Union General Assembly 2017 (EGU2017).
- Chairman of the session “IoT, Big Data And Advanced EM Sensors And Systems” at IEEE-APWC 2017.
- Official reviewer of the journals “Atmosphere” (<http://www.mdpi.com/journal/atmosphere>), “Forests” (<http://www.mdpi.com/journal/forests>), “Sensors” (<http://www.mdpi.com/journal/Sensors>), “Applied Sciences” (<http://www.mdpi.com/journal/applsci>), “Water” (<http://www.mdpi.com/journal/water>), “Remote Sensing” (<http://www.mdpi.com/journal/remotesensing/>) since 2017 and “Applied System Innovation” (<http://www.mdpi.com/journal/asi>) since 2018. All the journals are published by MDPI (Multidisciplinary Digital Publishing Institute).
- Member of Editorial Board of the journal “Environment and Natural Resources Research” (ENRR), <http://www.ccsenet.org/journal/index.php/enrr> since 2015 and of the journal “Environmental Management and Sustainable Development” (EMSD) <http://www.macrothink.org/journal/index.php/emsd> since 2016.

### ACADEMIC REGISTER MEMBERSHIPS

- Registered at “Albo dei Titolari per la didattica, Settore Scientifico Disciplinare ING-INF/02 – CAMPI ELETTROMAGNETICI”, for 2015-2018.
- Registered at “Albo dei Collaboratori didattici, Settore Scientifico Disciplinare ING-INF/02 - CAMPI ELETTROMAGNETICI”, for 2013-2021.
- Registered at “Albo dei Collaboratori didattici, Settore Scientifico Disciplinare ING-INF/03 - TELECOMUNICAZIONI”, for 2017-2021.
- Registered at “Albo dei Collaboratori didattici, Settore Scientifico Disciplinare MAT/05 – ANALISI MATEMATICA”, for 2017-2021.

### OTHER

- Amateur Radio Licence, HAREC Certificate, since 2007.
- I have been playing volleyball for 20 years.
- In 2001 I received a FIAT scholarship reserved for employees’ children.

DRIVING LICENCE

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ANNEXES

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*I authorize the processing of my personal data.*

*In particular, I hereby authorize the use of my personal details in relation to the Italian Legislative Decree n° 196/2003.*

DATE AND SIGNATURE

2<sup>nd</sup> March 2019

Silvano Bertoldo

