RODOLFO TURCO
I'm Italian, born in Syracuse on March 22, 1969, passionate about electronics, programming, robotics and technologies, both theoretically and manually. Moving in heterogeneous environments, using Windows, Linux, Android, PLC, microcontrollers, electronics, renewable energies, mechanics, I grew up in hardware, electronics, firmware and software experience.

CONTACTS
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EDUCATION
- Diploma in automatic electronics - E. Fermi Technical Institute – Syracuse - Final score 60 out of 60
- Three-year of informatic engineering - University of Pisa - Uncompleted five-year master course to enter the world of work
- English courses - Shenker and privates
- Microsoft C++, MFC short courses - Siemens educational
- Windows CE course - Microsoft - Denver - Siemens educational
- Courses on safety, first aid and fire prevention - Siemens educational + others
- Solar thermal panels self-construction course - Enthusiastic group about renewable energies
- 108 hour course on photovoltaic systems - Public training school

Languages and technologies used: .NET, C, C++, COM, DCOM, ATL, Visual Basic, Pascal, TCL/TK, Fortran 77, Paradox PAL, Microsoft SQL Server, Oracle Pro*C, Assembler (6502, Z80, 80X86, PIC Microchip), STM32, ATMega, ESP32, ESP8266, ARM Cortex, USB, Bluetooth, BLE, Electronic, Robotic, MFC, wxWidgets, HTML, ClearCase, SourceSafe, CVS, GitHub, Doxygen, Microsoft Visual Studio, PalmOS developer suite, Eclipse, Microchip MPLAB IDE, STM32Cube, Android, Arduino, Raspberry, IoT, Java, Apache, PHP, MySQL, Python, SEO, PLC, PMC, CNC, Vtiger CRM, LVGL graphic.

SKILLS
Firmware and hardware on embedded systems, analog and digital electronics, electrotechnics, hydraulic systems, thermal conditioning, carpentry, mechanics, industrial and home automation.

EXPERIENCES
*** Hardware and firmware developer**
Turcotronics - Since November 2021
My own company where I deal with hardware and firmware design on embedded systems
https://www.turcotronics.it/
Some of the products I've made: Android app to check tire pressure; firmware for a controlled plastic melting machine; hardware and firmware of a plastic filament machine; hardware and firmware of a lamp showing pollution; firmware of a pollution measurement wearable; remote control and receiver, both hardware and firmware, and power control system for an electric locomotion vehicle; mechanics, hardware and firmware of a wifi-controlled robot for carrying loads; ambient light measuring instrument.

*** IT manager and developer**
Sales Performance - November 2020 to October 2021 - (1 year) - Full-time - Milazzo - Italy
HTML and PHP developer, database and CRM management

*** Writer**
Myself - January 2020 to 2020 - (1 month)
Author of the book "SEO Marketing Synthesis" Sintesi SEO Marketing

*** Maintenance engineer**
Various catholic shrines and private customers - June 2009 to October 2020 - (11 years and 5 months)
- Consultant - Trieste, Taranto, Rome - Italy
Maintenance and expansion of IT, electrical, hydraulic and thermal systems

*** R&D firmware and software developer**
Siemens S.p.A - November 1997 to December 2008 - (11 years and 2 months)
Industrial automation
In a international context, I participated in the development of a real-time industrial control software written in C and I took care of its porting on hardware based on PCI and CompactPCI buses, Intel architecture and Windows NT operating system with Venturcom real-time RTX extension. I have developed in C ++ and Visual Basic an application for statistical process control (SPC, SQC) under
Windows using Simatic IT and SQL Server; in particular, I worked on the real-time processing and storage of industrial data flows. I have provided technical assistance on site and on the plant for problems related to wiring, networks, electronics, PLCs, remote I/O and programming.

*** Software developer and IT manager**
Sysdata office and ENEL energy customer
Pisa branch of Sysdata Italia - December 1996 to November 1997 - (1 year) - Pisa - Italy
Systems activities in Unix and Windows environment and as a software developer in C /
C ++ on Unix and Windows NT; in particular, I took care of the porting from Unix to Windows
NT of a C / Pro * C data transport program on an Ethernet network based on Oracle 7, dealing with problems relating to database access, SQL, multi-process and the Ethernet network.

*** Software developer**
ESA agency and IDS SpA - April 1996 to October 1996 - (7 months) - Consultant - Pisa - Italy
I developed in the languages C, Fortran 77 and TCL/TK software CAD for microwave guide analyzer (FEST 2) in Unix environment with multi-platform porting on behalf of the European Space Agency (ESA -ESTEC - XRM, Noordwijk, the Netherlands) commissioned by IDS SpA; in this project, carried out with two other programmers, I took particular care of the computational part of the software, the manuals in English and the relations with the IDS company and the ESA agency.

*** Civil servant**
Superintendence for Environmental, Architectural, Artistic and Historical Heritage
August 1995 to July 1996 - (1 year) - Pisa - Italy
Duties related to information technology: software development oriented to database management and cost assessments; management of software, computers and peripherals in Windows and Unix environments; in particular I have developed a software in Paradox PAL for the management of a database of practices.

*** Teacher**
Moretti and Carpita s.r.l. - January 1995 to April 1995 - (4 months) - Temporary Work - Pisa, Italy
I taught the basic elements of MS-DOS, WINDOWS and AUTOCAD to employees

*** Hardware and software developer**
By myself for the thesis of a relative - January 1994 to April 1994 - (4 months)
I created the electronic circuit and control software of a dynamic scale to measure the main physical parameters of an athlete's jump and the measurement of electrical and sound signals from muscles

*** Teacher**
AM s.r.l. - December 1992 to July 1993 - (8 months) - Pisa - Italy
I taught system regulations, electrical systems laboratory and computer science in a professional school

*** Writer**
Private - May 1989 to October 1989 - (6 months)
I developed educational software on an industrial control system based on the Z80 and wrote part of a book for my former electronics professor.

*** Several**
Myself - 1988 to 1994 - (6 years and 1 month)
During my university studies I worked as a teacher and computer technician; I have designed, built and repaired electrical systems and electronic circuits.

*** Developer for fun**
Myself - Since 2010
Author of some mechanics, hardware, freeware and open sources on Palm, Android, Linux, Windows and embedded systems
http://ausilio.altervista.org/
https://github.com/turcotronics
https://www.turcotronics.it/DIY.php

LANGUAGES

Italian	10/10
English	8/10

CERTIFICATIONS

* Microsoft MOC 1015
* Expert technician of photovoltaic systems
* Workers' safety representative – Siemens
* Introduction to A&D – Siemens
* Firefighter - Siemens
* LPM CPLU Programming in Visual C++ language
* Master Course in Artificial Intelligence & Deep Learning 3.0
* Technology Entrepreneurship: Lab to Market

INTERESTS

Electronics, computer science, astronomy, robotics, technology, renewable energy, DIY, carpentry, aquariums, volunteering, repairs.

21/September/2026