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PROFESSIONAL SUMMARY:

Several years of experience and passion on electronics, programming, Windows, Linux, Android, PLC, embedded systems, microcontrollers, renewable energies, mechatronics, astronomy.

SKILLS:

Firmware design, hardware design, embedded systems, software development, analog and digital electronics, electrotechnics, hydraulic systems, thermal conditioning, HVAC, mechatronics, industrial automation, home automation, renewable energy, robotics, education, repairing.

EDUCATION:

Diploma in automatic electronics, Enrico Fermi Technical Institute, Syracuse, score 60 out of 60

Three year of informatics engineering, Pisa university, uncompleted five-year course

Courses of Italian (native), English (fluent), France, Spanish, Russian and Chinese

Microsoft C++, MFC short courses, Siemens educational

Windows CE course, Microsoft, Siemens educational

Courses on safety, first aid and fire prevention, Siemens, Tuscia university

Solar thermal panels self-construction course, enthusiastic group about renewable energies

Photovoltaic systems, 108 hour course, CIRSP CONSORTIUM, public training school

Master Course in Artificial Intelligence & Deep Learning 3.0, udemy

Technology Entrepreneurship, Lab to Market, HarvardX

I wrote the book "SEO Marketing Synthesis"

CERTIFICATIONS:

Expert technician of photovoltaic systems, CIRPS CONSORTIUM

Thermal solar panels, Private group

Workers' safety representative, Siemens

Introduction to A&D, Siemens

Firefighter, Siemens

Microsoft MOC 1015, Siemens

LPM CPLU Programming in Visual C++ language, Siemens

Master Course in Artificial Intelligence & Deep Learning 3.0, udemy

Technology Entrepreneurship, Lab to Market, HarvardX

USED TECHNOLOGIES:

.NET, C, C++, COM, DCOM, ATL, Visual Basic, Pascal, TCL/TK, Fortran, Paradox PAL, Microsoft SQL Server, Oracle Pro*C, Assembler, STM32, ATmega, ESP32, ESP8266, ARM Cortex, USB, Bluetooth, BLE, Zigbee, Electronics, Robotic, MFC, wxWidgets, HTML, ClearCase, SourceSafe, CVS, GitHub, Doxygen, Microsoft Visual Studio, PalmOS, Eclipse, Microchip, MPLAB, STM32Cube, Android, Arduino, Raspberry, IoT, AI, Java, Apache, PHP, MySQL, Python, SEO, PLC, PMC, CNC, Vtiger, CRM, LVGL graphic.

WORK EXPERIENCE:

Hardware and firmware designer and developer

Turcotronics - from 01/November/2021 to now – Italy.

My own small company where I deal with hardware and firmware design on embedded systems.

Some of my products: Android apps; plastic melting machine; plastic filament machine; lamp showing pollution; pollution measurement wearable; remote control and power control for an electric locomotion vehicle; wifi-controlled robot for carrying loads; ambient light measuring instrument.

IT manager and developer

Sales Performance – from 01/November/2020 to 31/October/2021 – Italy.

HTML and PHP developer, Linux server, database and CRM management.

Management and maintenance

Various customers, small and big plants - from 01/June/2009 to 30/October/2020 – Italy.

Management and maintenance of IT, electrical, HVAC, hydraulic and thermal systems.

R&D firmware and software developer

Siemens – from 01/November/1997 to 29/December/2008 – Italy.

Development of a real-time industrial control software written in C. Development in C++ and Visual Basic an application for statistical process control (SPC, SQC) using Simatic IT and SQL Server; real-time processing and storage of industrial data flows. Technical assistance on site and on the plant for problems related to wiring, networks, electronics, PLC, remote I/O and programming.

Software developer and IT manager

Sysdata Italia and ENEL – from 01/December/1996 to 30/November/1997 – Italy.

Systems activities in Unix and Windows environment and as a software developer in C / C++ on Unix and Windows NT; data transport program on an Ethernet network based on Oracle 7, database access.

Software developer

ESA and IDS – from 01/April/1996 to 30/October/1996 – Italy.

I developed in the languages C, Fortran and TCL/TK software CAD for a microwave guide analyzer (FEST 2) in Unix environment.

Civil servant, compulsory service

Superintendence for Environmental, Architectural, Artistic and Historical Heritage - from 01/August/1995 to 30/July/1996 – Italy.

Duties related to computers, information technology, databases management.

Several other small experiences during my university studies

Myself – from 01/June/1989 to 29/June/1996 – Italy.

I worked as a teacher and computer technician, designed, built and repaired electrical systems and electronic circuits; author of mechanics, hardware, freeware and open sources on PalmOS, Android, Linux, Windows and embedded systems.