

PERSONAL INFORMATION

First name and Surname GIUSEPPE MANCINI
Address 4 Vercelli street, 10036 – Settimo Torinese (TO), ITALY
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Nazionalità Italian
Date of birth 18th January 1982

WORK EXPERIENCE

•Date (from - to) 28/11/2011 - today
•Name and address of employer FPT Industrial SPA
•Type of business or sector Automotive
•Employment type Permanent Contract
•Main activities and responsibilities Systems & controls specialist engineer

Responsible for:

- Development of engine control functions, meeting project deliverables according to the timing milestones and project RASIC
- Concept definition
- Function development/approval (rapid proto test, engine test, functional request for SW implementation)
- Function verification (HIL, test bench, vehicle)
- Function pre-calibration / calibration (according to project RASIC)
- Support to application team (troubleshooting)

Synergies across different engines:

- Best practices application
- Maximization of re-usability of available solutions by means of modular approach

Development of core competences:

- Brand and product distinctive control functions
- HIL (support to development and tests/procedures definition)

Evaluate scenario:

- Monitor competitor's products and solutions
- Understand technology evolution

Significant support in:

- Benchmarking
- System cost reduction

- Date (from - to)
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07/04/2010 → 25/11/2011

Segula Technologies Italy srl

Automotive

Permanent contract

Systems engineer at General Motors Powertrain Europe:

- Analysis and diagnosis in automotive systems.
- Generating test-patterns to verify the proper functioning of the system and compliance with all the functional requirements.
- Validation through simulations in Matlab ® / Simulink with Stateflow and evaluation of the effectiveness of diagnostic strategies.
- Calibrations in test bench engine.
- Testing and validation of the engine system in test bench through the use of INCA to upload the software into ECM.
- Acquiring interest by PUMA and Indicom.
- Analysis of the results of vehicle control and evaluation of actual behavior of real-life testing with further evaluation of its impact on drivers.
- Calibrations in the vehicle with INCA.
- Testing and validation of the system in the vehicle.
- Debugging system.
- Release final calibrations for the production of diagnostic systems such as:
 - High pressure hydraulic system in the rail.
 - Lambda sensor:
 - Electrical monitoring
 - Full-load monitoring
 - Overrun monitoring
 - Pressure sensor in the combustion chamber:
 - Sensor monitoring electrical
 - Physical monitoring out of range
 - Offset pressure monitoring
 - TDC Offset Monitoring
 - Pressure variation monitoring
 - Noise monitoring
 - Governal deviation monitoring
 - Injection with compensation strategies on the amount injected in order to minimize noise and maximize the efficiency of combustion through quantity small adjustment and quantity small learning.

•Date (from - to) 01/11/2009 - 06/04/2010
•Name and address of employer TBridge Spa
•Type of business or sector *Information Communication Technology*
•Employment type Permanent contract
•Main activities and responsibilities Software Consultant from Telecomitalia Spa
(UNIX System Administrator):
System Administrator for customers Telecomitalia:

- Blue Orange
- Pirelli
- Ferrari
- Maserati
- Fiat
- Findomestic
- Carrefour
- Emilia Romagna

•Date (from - to) 15/04/2009 - 31/10/2009
•Name and address of employer TBridge Spa
•Type of business or sector *Information Communication Technology*
•Employment type Project Contract
•Main activities and responsibilities Consultant at Royal & SunAlliance Insurance
(Windows System Administrator):
System Administrator and the entire computer RSA network Italian.

•Date (from - to) 01/03/2009 - 15/06/2009
•Name and address of employer IAL Emilia Romagna
•Type of business or sector *Information Communication Technology*
•Employment type Project Contract
•Main activities and responsibilities Teacher Office Automation

•Date (from - to) 12/01/2009 - 28/02/2009
•Name and address of employer TBridge Spa
•Type of business or sector *Information Communication Technology*
•Employment type Permanent contract
•Main activities and responsibilities System Administrator:

- Responsible for internal network TBridge Spa
- Network Manager BV_Tech Spa
- Responsible Network BV-Tech Research Ltd.
- Network Manager Progesi Spa

- Date (from - to)
- Name and address of employer
- Type of business or sector
- Employment type
- Main activities and responsibilities

01/10/2007 - 30/07/2008

Centro Ricerche Fiat

Automotive

Stage

- Analysis and engine control system.
- Analysis and control system valves.
- Analysis engine MULTIAIR.
- Analysis and study of diagnostic systems in the automotive field.
- Establishment of systems through the use of advanced predictive control.
- Production of diagnostic systems for the AIR system to complement the engine control systems and control valves.
- Design and implementation of systems FDI (fault detection and isolation) within the Matlab ® / Simulink. In particular, the use of Stateflow for event-driven management systems.
- Generation of test-patterns to verify the correct operation of the system and the respect of all the functional requirements.
- Validation through simulations in Matlab ® / Simulink and evaluating the effectiveness of control through the analysis of results.
- Using the Target Link DSpace tool for automatically generating C code from models created in MATLAB ® / Simulink.
- Validation of the sources as generated by comparing simulations MIL (Model in the loop) and SIL (software in the loop).
- Validation and testing of the diagnostic system to monitor engine through tests in test bench.
- Using the INCA for uploading the software in the engine control unit and valve control unit.
- Acquisition of signals of interest.
- Analysis of the results of vehicle control and evaluation of actual behavior of real-life testing with further evaluation of its impact on drivers.
- Debug control.
- Drafting of the specific execution of transactions based on proprietary rules CRF.

- Dates (from - to)
- Name and address of employer
- Type of business or sector
- Employment type
- Main activities and responsibilities

01/02/2007-01/04/2007

Sergio Abramo

Abramo Holding

Determinate contract

Call center companies TIM (Telecom Italia Mobile)

EDUCATION AND TRAINING

- Date 2011
 - Name and type of organization providing education and training English course- intermediate level
E.F.A.P.

- Date 2010
 - Name and type of organization providing education and training Registration at Register of Engineers of the Province of Crotona
ENGINEER - SECTION A - SECTOR: C (INFORMATION)

- Date 2009
 - Name and type of organization providing education and training Enabling to practice as a engineer
ENGINEER - SECTION A - SECTOR: C (INFORMATION)

- Date 2008
 - Name and type of organization providing education and training Postgraduate degree in Automation Engineering
 - graduate rating 109/110
 - Thesis title Analysis and diagnosis of malfunctions of engine MULTIAIR with actuated variable valves.
 - Dates **Automation Engineer**

- Date 2005
 - Name and type of organization providing education and training Bachelor's Degree in Computer Engineering
 - graduate rating 89/110
 - Thesis title Detecting faults in a system of coupled tanks through the use eigenstructure.
 - Dates **Software Engineer**

- Date 2004
 - Name and type of organization providing education and training **English certificate: Trinity 7th level**

- Date 2001
 - Name and type of organization providing education and training "ITC A. Lucifero" in Crotona
 - Diploma vote 93/100
 - Dates **Accounting and Commercial Expert**

TECHNICAL SKILLS

- Assembly, installation and service of personal computers.
- Realization of corporate networks.
- Knowledge of operating systems: OS X, MS Windows 3.11, NT 4.0, 95, 98, 2000, Me, XP, Vista, Mandrake Linux, openSUSE, Ubuntu.
- Knowledge of server operating systems: Windows 2000 Server, Windows Server 2003, Windows Server 2008, Redhat Linux, HP-UX, Sun Solaris.
- Knowledge of virtual machines: Vmware.
- Knowledge of configuring Microsoft Outlook 2003, Lotus Notes Domino.
- Knowledge of MS Office 97, 2000, XP, 2003, 2007, MS Front Page XP, OpenOffice.
- Knowledge of browsers: Internet Explorer, Mozilla Firefox, Opera.
- Complete knowledge of programming languages Assembler, QBASIC, Pascal, MS Visual Basic, Java, C + +.
- Knowledge of HTML, XHTML, XML, CSS, JavaScript.
- Dynamic Web Site Creation Technology Professional with PHP, CSS.
- Knowledge of DBMS: MySQL, Access.
- Knowledge of Macromedia MX (Dreamweaver, Flash, Fireworks).
- Knowledge of programming environments: Eclipse, JBuilder.
- Knowledge of design language UML 2.0 standard.
- Knowledge of design environments: Poseidon.
- Knowledge environments CAD: Autocad, VisualNastran, ProEngineering, ArchiCAD, SolidWorks.
- Knowledge environments for modeling physical phenomena Mathematica, Matlab and Simulink.
- Knowledge of graphics software: Adobe Photoshop CS5, Corel Draw.
- Knowledge environments and programming languages for microcontrollers ATMEL.
- Knowledge of language lejos Programming Lego Mindstorms Robot.
- Knowledge of programming language environment Robocomm Rapla-3 with robots as Catalyst for-5.
- Knowledge of instrumentation ETAS: ES600, ES620, ES650, ES590, ES690, ES780, ES1000.
- Knowledge of instrumentation calibration tool: ETAS INCA.
- Knowledge acquisition tools display: ETAS MDA.
- Knowledge of self-generated code tool: DSPACE Target Link.
- Knowledge tools for test bench engine instrumentation: AVL Puma.
- Knowledge acquisition tools for high-frequency signals: AVL Indicom.

**SOCIAL SKILLS AND
COMPETENCES**

Excellent communication skills interpersonal.

Excellent communication skills strengthened further in the game as football team.

Relations in the university through the creation of educational projects in collaboration with other students.

Collaborations with colleagues working for the realization of projects and the division of work, excellent problem solving skills.

ORGANIZATIONAL SKILLS

Volunteering in the diocese San Domenico in Crotone.

Responsible in some university projects.

Administrative assistant condominium.

Head scout at Crotone Federation Scout Europe.

INTERESTS

In technological innovation and application software programming and control multi-platform Java, Web dynamic sites and managing computer networks LAN, WAN and WIFI.

In industrial robotics, mobile robotics and automation systems design.

Particularly interested in the automotive engine control with implementation of diagnostic algorithms for faults detection and recovery strategies.

DRIVING LICENSE

B license

I authorize the processing of personal data as Legislative Decree No. 196 of 30/06/2003 (Italian regulation).