

SIMONE RIZZUTO

Via Donna Olimpia 25
00152 Roma Italia

Date: June 9th 1971

Sex: Male

Tel. Home +39 6 58205333 Office. 06 50566651, 064546651

Mobile. +39 338 3697215 Fax +39 06 50566720

e-mail: s.rizzuto@tin.it; simone.rizzuto@bridgestone-eu.com

Professional experiences

Bridgestone Europe Technical Center

Advanced Engineering-Tire Development

VEHICLE DYNAMICS SENIOR EXPERT:

Roma

- *(since January 2006 to today):* Vehicle dynamics and tire and suspensions testing evaluation. Like expert of Vehicle dynamics from subjective testing, objective testing to simulation I'm implemented a methodology to correlate subjective evaluation, objective parameters, simulation and Flat Trac testing to improve the tire performances on design phase. Objective handling testing procedure, new methodological and numerical tools to analyze the tire during outdoor testing to maximize the handling performances. Implementation on new Flat Trac testing procedure related to the Outdoor testing.
- Implementation of new testing maneuvers and new instrumentation like: wheel force transducers, steering robot, GPS, wheel angles measurement (krypton-Metric and Corsyys RV4). Identification by testing objective procedure of 14 d.o.f. simulation tools.
- Establishment of testing and simulation area about the Rolling Resistance and fuel consumption on Vehicle, from simulation (with AVL cruise) to testing procedures.
- Collaboration with Alfa Romeo and Maserati on the new platforms: supporting in testing and simulation the OE tire development
- Collaboration with Audi and BMW for tire performances improvement: temperature effect at limit condition and run flat performances application.

Fiat Auto

Fiat Auto Engineering & Design. – Performance Competence Center Handling, Brake and Ride Comfort

CHASSIS TESTING TEAM RESPONSIBLE

Balocco-Torino

- *(since november 2004 to december 2005):* Coordination of 10 people (Driver, Test engineer) by chassis department and responsible on the line Q2 implementation and development on the new Alfa Romeo 147 and implementation on all new Alfa Romeo. Responsible on testing suspension development on 198 (new Fiat Bravo) and 844 (new Lancia Delta) testing. Development and implementation on Brake and vehicle dynamics application: suspension validation and tuning, ABS and ASR, ESP development.

Alfa Romeo B.U. – Performance Competence Center Handling, Brake and Ride Comfort

Alfa Romeo Chassis Department (Project and testing)

CHASSIS RESPONSIBLE FOR C PLATFORMS AND ARCHITECTURES

Balocco-Arese

- *(since May 2002 to november 2004):* Project Manager Handling Comfort Steering and Brake for Compact Car Alfa Romeo (C class family: 940 new 147, new GT, new SUV Alfa Romeo). Technical Responsible of suspension and Vehicle Dynamics. Since beginning of the project responsible of the performance on the vehicle and all part of suspension, calculus, design, layout, specifics, timing and performance. With the assistance of five people (part from project department and part from testing department) responsible of the bench experimentation and vehicle testing for suspension, steering, brake and all active systems. From this Platform will born the new SUV Alfa Romeo Kamal and new 940

**Alfa Romeo B.U. – Performance Competence Center Handling, Brake and Ride Comfort
Alfa Romeo Chassis Department (Project and testing)**

VEHICLE DYNAMICS NEW ESP APPLICATION

Balocco-Arese

• **ESP applications:**

- CONTINENTAL TEVES: Performance responsible of application high performances ESP on high class vehicle from testing and simulation. Integration with active 4WD (Pilot Project)
- DELPHI TRAXXAL: Performance Responsible of TRAXXAL: simulation and testing evaluation. Integration with ARC (Pilot Project)
- BOSCH standard application: Support the development with Objective methodology and Multibody simulation.

FIAT AUTO. – Alfa Romeo Testing Department

PROJECT CHIEF SUSPENSION:

- (since September 2001 to April 2002): Handling Comfort Steering and Brake Performance Engineering of new Fiat B Class Platform (Grande Punto-Corsa) . Had of the Vehicle Dynamics Performances of the Small Platform. Inside the Joint venture by Fiat and Opel responsible of the agreement on testing evaluation, objective test and simulation methodology. Responsible of ATS (ARCHITECTURAL TECHNICAL SPECIFICATION), delle VTS (VEHICLE TECHNICAL SPECIFICATION) and for the SSTS (SUBSYSTEMS TECHNICAL SPECIFICATION) for the Suspension Part, for the Brake Part and Steering Part.

FIAT AUTO. – Alfa Romeo Testing Department

PERFORMANCE ENGINEER CHASSIS:

- (since March 2000 to August 2001): Handling Comfort Performance Engineering of Fiat Stilo Platform and Fiat Stilo Station Wagon (192 project). Responsible of the setup of the suspension of the vehicle from the mule to the series by integration from simulation, bench (K&C) and vehicle testing on the follow track: MIRA (England), Arijemplog (Sweden), IDIADA (Spain), Balocco (Italy), Nardò (Italy) and Nurburgring (Germany). Application on the set-up of the active systems of Vehicle Dynamics (VDC, ASR, MSR, EBD).
- (since December 2000 to January 2002): Handling Comfort Performance Engineering of Lancia Y (843). Had of the setup of the suspension of the vehicle from the mule to the series by integration from simulation, bench (MTS) and testing.

Scuderia Bizzarrini of the ing. Giotto Bizzarrini

Livorno

• **PROJECT ENGINEER.**

Since 1999:

Project of a body chassis, suspension system's creation for the new Bizzarrini P538.

Remake of the historic Bizzarrini P538, that won a lot of motor races in the '60-'70 years; the Bizzarrini's stable product the road version in the 1972. The planning and the structural calculation of building components have been realised through Autocad 3D and Ansys. Installation and preparation of the Yamaha motor 1002 [cc] 4 cylinders 20 valves (climbed on on the YZF R1, from 150 CV) on the car, plan of the electric plant, of the joints of connection to the loom and preparation of the motor in consideration of his auto application

• **COORDINATOR OF MODEL MAKER.**

Since April 1998 to June 1998:

A wooden and polystyrene realisation of the body model on the scale of 1:1 with a very high density to make possible the construction of swages. Management of works for the construction of swages and the fiberglass model. An aerodynamic studio has been in the Bizzarrini's Windtunnel.

• **PROJECT ENGINEER.**

Since 1997 to 1998:

Project ad realisation of a prototype of a sport car with a Hybrid traction called Bizzarrini Kyara. This vehicle has been realised in a teamwork with CNR (National Research Council), Research Centre FIAT , PININFARINA Research and the University of Rome "La Sapienza".

Research Centre of Fiat

Torino

VEHICLE DYNAMICS JUNIOR ENGEENER

Since September 1999 to April 2000:

Stage inside the *Vehicle Department* to the project and realization a prototype of hybrid traction.

TECHNICAL COURSE

CLAUDE ROUELLE AND MOCAR: Race Car and Vehicle dynamics development

LMS ITALIA ROADRUNNER: Time Data Acquisition & Analysis, Spectral Acquisition, Structural Animation

LMS ITALIA TPA E TCA: Transfer Path Analysis e Transfer Control Analysis

MECHANICAL DYNAMICS: *ADAMS/CAR expert user*. Use and develop ADAMS/SOLVER

ALTAIR : Multi body model for series car

SACHS DAMPERS: Development and tuning of damper of series vehicle

DRIVING COURSE :

- Driving Course on the Nortschleife (Nurburgring) in the School of Gorge Weber and drive enablement
- Alfa Romeo Driving Course in Balocco-La mandria (Italy) on hi-mu condition
- Alfa Romeo Driving Course in Arijenplog (Sweden) on low mu condition
- Bridgestone Training to the tire evaluation
- Like a Driver International record (FIA homologation) of 12H in Nardò (Italy) the 27/05/2003 of D-Class (by 156 JTD 16 V)

CENTRO RICERCHE FIAT: Corso Handling of Veicle Dynamics

CENTRO RICERCHE FIAT: Corso Noise Road Vibration

FIAT ISVOR: Basis Course on communication techniques, team working and marketing

Advanced Course on communication techniques, team working and marketing , model of leadership

University Publications:

DEVELOPMENT OF FOUR-WHELL DRIVE HYBRID SPORTS CAR - Giotto Bizzarrini- Vincenzo Delle Site- Leone Martellucci- Simone Rizzuto- Carlo Rusconi. FISITA '98 di Parigi nel 1998.

PROGETTO E REALIZZAZIONE DI UNA VETTURA SPORTIVA A TRAZIONE IBRIDA - Giotto Bizzarrini- Vincenzo Delle Site- Leone Martellucci- Simone Rizzuto- Carlo Rusconi. Congresso dell'Automobil Club Italia nel 1998 a Vietri (SA).

Educational Qualification:

University of Rome "La Sapienza"

Roma

Degree in mechanical engineering, earthly vehicles sector with mark of 99/110.

Degree thesis "Realizzazione di un veicolo sportivo a trazione ibrida e dimensionamento degli azionamenti elettrici". Supervisor: Ch.mo Carmelo Caputo Co-supervisor: Giotto Bizzarrini

Informatics Knowledge

Multibody Expert: Excellent knowledge of all the ADAMS pack and in particular ADAMS/CAR application. Good knowledge of Altair products.

Expert of all tire modelling: PACEJKA, RMOD-K, SWIFT, F-TIRE

Perfect CAD knowledge is in 2D that in 3D and good knowledge of CATIA and UNIGRAFICS products.

Excellent model maker in MATLAB, Matlab SIMULINK, CAR SIM, Vedyna, Dymola, Mesaverde. Expert on 14 d.o.f. vehicle modelling.

Military Service

Military service released in the Italian Army of Genio: office of Infrastructure and Firing Ground.Knowledges informatics.