

PERSONAL INFORMATION Francesco Tucci



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EDUCATION

Master degree in Mechanical Engineering at Polytechnic of Bari. Master thesis at FIAT Research Centre about laser hybrid welding process applied to automobile industry.

WORK EXPERIENCES

He joined the Fiat Group in 2004, at FIAT Research Centre, where he was involved in the development of NG engines and gained almost 10 years of experience. Main projects covered:

- MultiAir® CNG engine calibration (electrohydraulic Variable Valve Actuation, advanced combustion cycles as Miller and Atkinson cycles) and demo vehicle calibration for public funding project;
- Heavy-duty engine development at test bench fuelled with hydrogen-methane blends;
- EGR system development (long/short route, cooled and not) applied to NG heavy-duty engines;
- CNG spark-ignited medium and heavy duty engine calibration and homologation for on-road applications, to comply with EURO VI legislation (gas emissions, particulate emissions, EOBD);
- Ion sensing technology development applied to misfire and knock detection;
- Particle number and size analysis emitted by a CNG engine, measured with a Fast Particulate Spectrometer;
- Durability tests on CNG engines (general reliability, thermal shock, seizure test, oil consumption, etc...) and components (ATS, turbocharger, exhaust manifold, spark plugs, etc...).

In 2015 he moved to FPT, where he became responsible for NG engine testing activities. He is currently responsible for NG engine development and application team in the Engine Engineering Dept.