

Dr Nicola Zeoli

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Professional Profile

I am a chartered mechanical engineer with significative experience in the development and industrialization of complex products for automotive and industrial applications. I spent more than 10 years abroad (including LCC countries like Brazil and Romania) to localize/outsource new production lines. I am extremely familiar to assess (IRR and PBT) and implement large CAPEX (> 2 mln €), handling tight cash flow in capital intensive project.

Objective

I am looking to bring my extensive range of theoretical and practical skills within a suitably challenging environment.

Previous experience summary

- Since July 2017, general manager at Friulpress (aluminium die casting).
25% growth achieved during the initial 12 months.

- Jan 2015 - Jun 2017, general manager at SHE.
Release of 3 years business plan, reorganization of the manufacturing structure and implementation of the new ERP system.

- Sept 2011 - Dec 2014, technical manager at Specialist Heat Exchangers (www.specheat.co.uk).
I guided the development of coolers for automotive and oil & gas industry. In particular fuel coolers, transmission oil coolers, API 661, ASME VIII, ASME U stamp, fully winterized and low temperature solution.

- Sept 2007 - Aug 2011, project manager at Cogeme-set (www.cogemeset.it) machined precision parts.

I lead the launch of new turbocharger and injection components (honed bearings, shaft, shaft and wheel assy, body, seat, GDI pump) involving electron beam welding, grinding, balancing, honing and ECM. I operated with TIER 1 customers like Bosch, Marelli, Delphi, Honeywell, Borgwarner, IHI, BMTS and Continental.

- Oct 2004 - Aug 2007, PhD at Aston University, Birmingham UK (cfD modelling multiphase flow).

- Jul 2003 - Sept 2004, lieutenant of the Italian army (handling of engineering contracts).

- Sept 2003, Qualification as chartered mechanical engineer at University of Rome "La Sapienza".

- Oct 2002, Master Degree in Mechanical Engineering at University of Rome "La Sapienza", thesis title "Numerical simulation of sootblower erosion in RDF Boiler" (106/110).

Selected experiences

- Design and manufacturing of synthetic and mineral oil cooler for BP Clair Ridge compressor
- Design and manufacturing of CUTR compliant coolers for Yamal LNG
- Industrialization of stainless steel natural convection coil for pump skid API plan 56B
- Startup of 7 production lines of shaft and wheel assy for turbocharger (electron beam welding, profile grinding and balancing)
- Design of vaneless volute for radial inflow turbines (Company: Eka metal powders);
- Design of isentropic plug nozzle for gas atomization (Company: BSA metal powders Ltd).

Publications

- Numerical modelling of metal droplet cooling and solidification, In Press, Corrected Proof, Available online 21 February 2008 N. Zeoli, S. Gu and S. Kamnis, International Journal of Heat and Mass Transfer;
- "Numerical Study of the Compressible, Reacting Turbulent Unsteady Flow in a Curved Pipe", 20th International Conference ECOS, Padova (Italy) June 25-28;
- "The computation of the entropy generation rate for turbomachinery design applications: some theoretical remarks and practical examples", IJETP Special Issue on Computational Fluid Dynamics Simulations in Energy Technologies and Processes, 2007;
- "A Study of Sootblower Erosion in Waste-Incinerating Heat Boilers", Journal of Energy Resources, Journal of Energy Resources Technology, Volume 129, Issue 1, pp. 50-53;
- "Numerical modelling of droplet break-up for gas atomisation", Computational material science; Volume 38, Issue 2, pp 282-292;

Personal Details

- Marital Status: single;
- Nationality: Italian;
- Date of birth: 11.02.1977
- Place of birth: Latina (Italy);
- Languages: Italian mother tongue, English fluent;
- Health: Excellent, non-smoker.

Field of Interests & Activities

Multiphase flows, grid generation, heat transfer, turbomachinery, plug/aerospike nozzle.

References are Available on Request