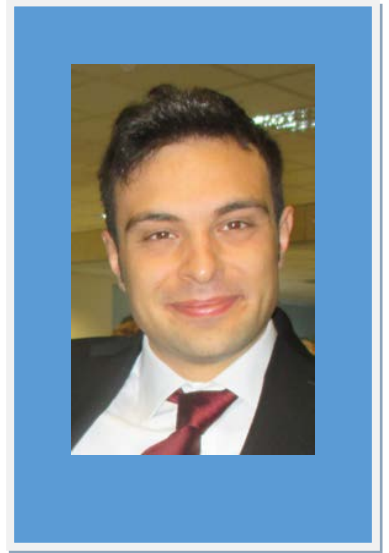


# Education



Mechanical Engineer

INSTITUTE: Univerisity of L' Aquila

2007-2014

Details:

Graduation in Mechanical Engineering (first degree, three years): 2011

Master in Mechanical Engineering (second degree, + two years):

2014

My fields of specialization are optimization of energy processes, environmental impact, renewable & traditional energy sources, energy system analysis, energy storage and demand and supply optimization. Themo-fluid-dynamics is the key science of my background.

PhD in Industrial Engineering (tirdt year)

INSTITUTE: Univerisity of L' Aquila

2014-today

Details

My Tutor is Prof. Roberto Cipollone and the core of my doctoral activity concerns innovative technologies in the Deepwater drilling. During my research work I joined Saipem S.p.A. which is the sponsor of my fellowship. In particular I studied the thermo-fluid-dinamic phenomena which characterize the rapid discharge subsea accumulators, developing thermodynamic models which allow to predict the behaviour of the accumulators under real operating conditions. Moreover, my study is oriented also on the evaluation on the BOPs actuation times, using 1-D dinamyc approach for evaluating the delay between command and actuation . A new design procedure of the accumuators is under developemnt being fully model based and intrisically safe with respect to the API-16D Method C which requires, on the contrary, a verification process.

Further fields of research concern the low grade heat recovery into mechanical energy accornding to ORC-based power units modeling and testing, from a thermo-fluid-dynamic point of view, new innovative expanders of a sliding vane types (rotary vane).

## PROFILE

### Name

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