Curriculum

Personal details:

- Alessandro Italiano

Education and Training:

- Telecommunications engineering degree - Bologna University
  - Thesis: Deployment and monitoring of multicast protocols on a Geographic network
- RedHat Certified System Administrator. Certification Number: 170-236-368

Work experience:

- Date: 10/1999 to now
- INFN [Italian National Institute for Nuclear Physics]
- Sector: public research
- Position: Technician collaborator
- Activities:
  - Until 2011 Computing farm administrator at INFN LHC Tier1 Center in Bologna, 20k CPUs
  - Currently Computing farm administrator at INFN LHC Tier2 ReCaS Datacenter in Bari, 7k CPUs

Skills and competencies:

- HTC and HPC Linux cluster Design, Implementation and Administration using Puppet
- High level Batch system Implementation and Administration
- Development of web-based tool for computing farm administration
- Python software development
- Storage cluster Design, Implementation and Administration up to 3PB exploited throw IBM Spectrum Scale[aka GPFS]
- GRID services administration for distributed computing
- CLOUD service Design, Implementing and Administration both computing/storage and network exploiting Openstack, both VM and Container
- TCP/IP router Implementation and Administration, HUAWEI CE 12800
- Zeek(BRO) IDS Design, Implementing and Administration
- IT automation using Puppet and module Developing
- Elasticsearch cluster Design, Implementing and Administration
- Being involved in several European funded projects for distributed computing like, EGEE, EGI, INDIGO-DataCloud, eXtreme Data Cloud and DEEP-HybridCloud

Main articles:

- Geographically distributed Batch System as a Service: the INDIGO-DataCloud approach exploiting HTCondor
- WNoDeS, a tool for integrated Grid and Cloud access and computing farm virtualization
- Pilot production grid infrastructure for high energy physics applications.
- The INFNGRID testbed.
- A comparison of data-access platforms for computing of Large Hadron Collider experiment.
- Deployment of job priority mechanisms in Italian Cloud of the ATLAS experiment.
- A comparison of data-access platforms for BaBar and ALICE analysis computing model at the Italian Tier1.
- Storage management solutions and perforce tests at the INFN tier-1
- Enabling a priority-based fair share in the EGEE infrastructure