


Daniele Cesini

Date of birth: 09/05/1976

Nationality: Italian

CONTACT

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WORK EXPERIENCE

01/11/2021 - CURRENT Bologna, Italy

Data Center Coordinator INFN - Italian Institute for Nuclear Physics

Coordinator of the INFN-CNAF Datacenter. Providing resources to about 40 scientific collaborations and experiments. It is a World Wide LHC Computing Grid (WLCG) Tier1. It hosts 100000 computing cores, 100PB of disk spaces and 200 PB of tape storage.

31/05/2014 - 30/10/2021 Bologna, Italy

User Support Team Coordinator INFN - Italian Institute for Nuclear Physics

User Support Team Coordinator at the CNAF datacenter of the Italian Institute for Nuclear Physics. The group acts as link between the INFN user communities accessing the computing facilities at CNAF and the Operations team. It helps in debugging user problems and supports the creation of computing models.

31/10/2017 - 29/04/2020 Bologna, Italy

ICT project manager INFN - Italian Institute for Nuclear Physics

Project coordinator of the H2020 eXtreme-DataCloud project (XDC - <http://www.extreme-datacloud.eu/>) dealing with the development of data management services for extremely large datasets in heterogeneous and distributed e-infrastructures

31/12/2014 - 30/12/2019 Bologna, Italy

ICT project manager INFN - Italian Institute for Nuclear Physics

COSA (Computing-On-SoC-Architecture) project coordinator. An INFN internal technology tracking project to evaluate the computing performances of low-power architectures taken from the embedded and mobile world for scientific applications. Moreover it benchmarked computational accelerators for the same applications.

31/08/2020 - CURRENT Bologna, Italy

ICT Project Coordinator INFN - Italian Institute for Nuclear Physics

Coordinator of the INFN team participating to the IoTwins project (<https://www.iotwins.eu>) an H2020 initiative dealing with the development of a computing architecture and infrastructure to create Digital Twins for SMEs, huge industrial facilities and datacenters.

31/12/2020 - 31/12/2023 Bologna, Italy

ICT Project Coordinator INFN - Italian Institute for Nuclear Physics

Coordinator of the INFN team participating to the H2020 StairwAI project which has the aim of promoting and facilitating the usage of Artificial Intelligence in European SMEs through the creation of ICT services based on the AI4EU system. Moreover it organizes competitive calls for the usage of the project services by the industries.

31/03/2006 - CURRENT Bologna, Italy

IT Researcher INFN - Italian Institute for Nuclear Physics

Within the Italian National Grid Initiative (NGI) connected to the European Grid Infrastructure (EGI) worked in distributed and Grid

Computing in the context of European FP7 and H20020 projects: the EGEE series, EGI-InSPIRE, ExaNest, HNSCICloud

System administrator of the HPC clusters at INFN-CNAF.

Administrator of the storage systems of the CNAF datacenter in particular the GPFS filesystem, the data transfer services and the frontends exposed to the users

31/03/2018 – CURRENT Bologna, Italy

Adjunct Professor University of Bologna

Professor at the Master Degree on Bioinformatics - course on Big Data Processing Infrastructures.

31/05/2002 – 29/09/2003 Modena, Italy

Collaborator University of Modena and Reggio Emilia

Research entitled: *"Simulations of the atmospheric circulation through limited area numerical models: study of strong wind cases"*. It involved the configuration, usage and output data analysis of the mesoscale NCEP-ETA model run on parallel machines to study the Antarctic catabatic winds and the Bora wind on the Adriatic Sea region.

Activity on the subject: *"Processing Antarctic data to prepare the initial and boundary conditions of a atmospheric numerical mesoscale model run on the Hellis Gate region at Baia Terranova"*.

31/03/2004 – 30/03/2006 Bologna, Italy

Collaborator INFN - Italian Institute for Nuclear Physics

Member of the Central Operations Team which coordinated the INFNGrid Infrastructure.

Supporter of production and pre-production sites, administrator and supporter of core Grid services.

Coordinator of the testbeds and of the testing activities for various gLite middleware products, in particular those related to the job management and to the authentication of the users

EDUCATION AND TRAINING

31/08/1995 – 13/12/2001 Bologna, Italy

Degree in Physics University of Bologna

Field of study Subnuclear Physics **Final grade** 110/110 **Thesis** Trigger simulation for the selection of muon events in the CMS experiment at the LHC

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

Other language(s):

English

Listening C1

Reading C2

Writing C1

Spoken production C1

Spoken interaction C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Cloud Computing Cloud platform: AWS, GCP etc. Unix - Linux (Optimal Knowledge) Programmin (C++ and Python) bash fortran Microsoft office High Performance Computing Grid computing Distributed Computing