Curriculum Vitae

PERSONAL INFORMATION

Filippo Valle

[redacted]

[redacted]

filippo.valle@edu.unito.it

http://fvalle1.github.io/

Twitter @Filippo_Valle | Skype filippo.valle

Sex Male | Date of birth [redacted]/1995 | Nationality Italian

EDUCATION AND TRAINING

09/2014–ongoing

Bachelor's degree in Physics

EQF level 6

Università degli studi, Turin (Italy)
http://www.unito.it/

09/2009–07/2014

Diploma di liceo scientifico 90/100

EQF level 4

Istituto di istruzione superiore "Aldo Moro", Rivarolo Canavese (Italy)
http://istitutomoro.it

Course "Piano Nazionale dell'Informatica" focused on the study of information technology and on physics' laboratory.

07/2012

Study experience

Studytours

Lessons at Pitzer College

I have been a fortnight in Los Angeles (California) in order to improve my English.

WORK EXPERIENCE

09/2013

Internship

Swiss National Supercomputing Centre, Lugano (Swiss)

http://cscs.ch/

Two weeks during whom I was able to analyse cosmic rays using Monte Carlo's methods. I wrote code in Fortran and OpenMP.

Related document: Cscs.pdf

PERSONAL SKILLS

Mother tongue: Italian

Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
	Cambridge University's FIRST Certificate (B2) Cambridge University's PET with Merit Certificate (B1)				

Related document: First.pdf

Morse code: I have a basic Knowledge of morse code

Organisational/managerial skills:

-I attended a course about “Lean Management” by Leannovator (http://www.leannovator.com/)

-Member of Rivara's band directive

Curriculum Vitae

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Computer skills

-European Computer Driving License (Average mark: 340/360)

-I write code with Mathematica and passed the Wolfram Certification Exam

-I use to write reports using markup language LaTeX (know how to create slide with Beamer package)

-I use root to analyse data during my university's courses

-Basic knowledge of the following programming languages: C++, Fortran, Makefile, R, Pascal and Visual Basic

-Reasonable knowledge of CMS Wordpress (I contribute to develop http://istitutomoro.it)

-Good command of Office suite (both Microsoft Office and OpenOffice) and used to work with: Macintosh, Linux and Microsoft Windows

Related documents: ECDL.pdf, Mathematica.pdf

Other Skills

-Blogger (http://fili007.altervista.org)

-I can solve Rubik's cube

-Very basic knowledge of morse code

-Help high school students with their homework about math and physics

Driving License

-B

ADDITIONAL INFORMATION

-I took part in Carnival of Physics (http://carnevaledellafisica.blogspot.it/2014/11/dal-liceo-alla- facolta-di-fisica.html)

-Trumpet player

-Sometimes I help running local library

-Love swimming and walking/trekking

Projects

High school thesis "Analisi di raggi cosmici mediante supercomputer"

UNIVERSITY'S EXAMS

First Year

Exam	Date*	Mark
Tecniche Informatiche per la Fisica	29/12/2014	100/100
Analisi I	03/12/2014	27/30
Geometria e Algebra Lineare I	05/12/2014	23/30
Analisi II	27/03/2015	27/30
Meccanica	15/04/2015	28/30
Esperimentazioni I	30/06/2015	30/30
Onde, Fluidi e Termodinamica	03/07/2015	30 e Lode/30
Analisi III	21/12/2015	27/30
Elettricità e magnetismo	12/01/2016	30/30
Chimica	18/01/2016	24/30

*All dates have to be intended in format dd/mm/yyyy

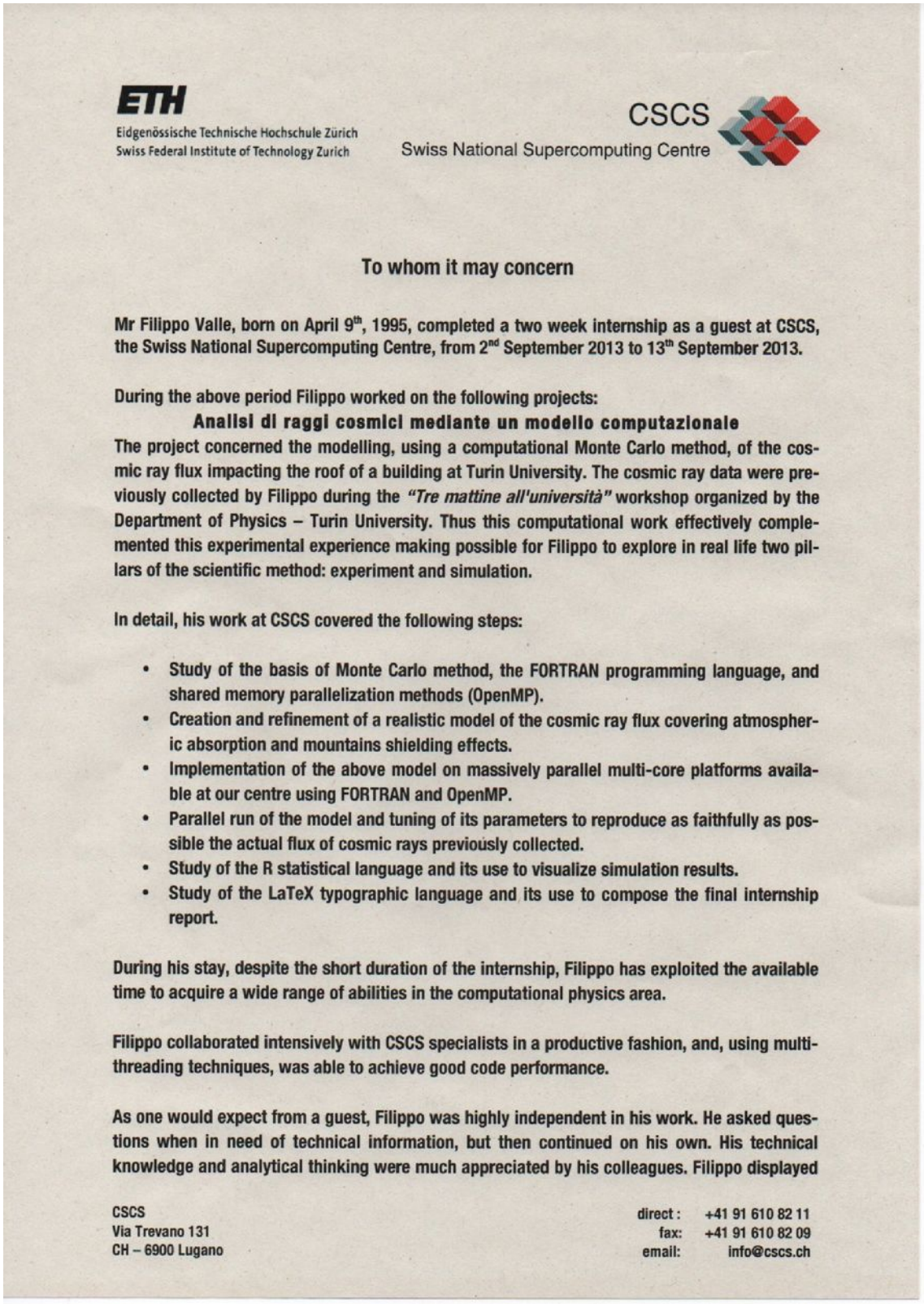
RELATED DOCUMENTS

Please find attached the following documents:

- Letter by Swiss National Supercomputing Centre
- Cambridge First certificate in English
- European Computer Driving License
- Wolfram Training Mathematica certificate
- Certificate by Leannovator

Privacy In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.

Cscs



ETH
Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

CSCS
Swiss National Supercomputing Centre

To whom it may concern

Mr Filippo Valle, born on April 9th, 1995, completed a two week internship as a guest at CSCS, the Swiss National Supercomputing Centre, from 2nd September 2013 to 13th September 2013.

During the above period Filippo worked on the following projects:

Analisi di raggi cosmici mediante un modello computazionale

The project concerned the modelling, using a computational Monte Carlo method, of the cosmic ray flux impacting the roof of a building at Turin University. The cosmic ray data were previously collected by Filippo during the *"Tre mattine all'università"* workshop organized by the Department of Physics – Turin University. Thus this computational work effectively complemented this experimental experience making possible for Filippo to explore in real life two pillars of the scientific method: experiment and simulation.

In detail, his work at CSCS covered the following steps:

- Study of the basis of Monte Carlo method, the FORTRAN programming language, and shared memory parallelization methods (OpenMP).
- Creation and refinement of a realistic model of the cosmic ray flux covering atmospheric absorption and mountains shielding effects.
- Implementation of the above model on massively parallel multi-core platforms available at our centre using FORTRAN and OpenMP.
- Parallel run of the model and tuning of its parameters to reproduce as faithfully as possible the actual flux of cosmic rays previously collected.
- Study of the R statistical language and its use to visualize simulation results.
- Study of the LaTeX typographic language and its use to compose the final internship report.

During his stay, despite the short duration of the internship, Filippo has exploited the available time to acquire a wide range of abilities in the computational physics area.

Filippo collaborated intensively with CSCS specialists in a productive fashion, and, using multithreading techniques, was able to achieve good code performance.

As one would expect from a guest, Filippo was highly independent in his work. He asked questions when in need of technical information, but then continued on his own. His technical knowledge and analytical thinking were much appreciated by his colleagues. Filippo displayed

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email: info@cscs.ch

the ability to acquire new skills and assimilate new information in a short time. At the same time, Filippo maintained excellent relationships with his colleagues.

We have known Filippo as a polite and friendly team player, whom we can recommend to future employers for a similar role.

We wish Filippo all the best in his professional and private endeavours.

Mario Valle
Computational Scientist

Laura Iosa
HR Specialist

Lugano, 24 February 2014

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First

UNIVERSITY of CAMBRIDGE
ESOL Examinations

English for Speakers of Other Languages

Cambridge ESOL Level 1 Certificate in ESOL International*

This is to certify that

FILIPPO VALLE

has been awarded

Grade C

in the

First Certificate in English

Council of Europe Level B2

Date of Examination MARCH (FB) 2013
Place of Entry ASTI
Reference Number 133T2680094
Accreditation Number 50027949

Michael Milanovic
Chief Executive

*This level refers to the UK National Qualifications Framework

Date of Issue 30/04/13
Certificate Number 0039481982

Ofqual

Llywodraeth Cymru
Welsh Government

cea
Rewarding Learning

ECDL


ECDL
European Computer
Driving Licence
Certificato ECDL
ECDL Certificate
Si certifica che:
This is to certify that:
FILIPPO VALLE
Nata/o il 09/04/1995 a CUORGNE'
ha superato con successo tutti gli esami necessari al conseguimento del
Certificato ECDL
has successfully passed all modules required for the granting of the ECDL
Il Presidente AICA
AICA President
data: 10/04/2013
N° IT 1851446
AICA
ECDL Foundation
Il presente certificato se stampato, è una rappresentazione del documento elettronico firmato digitalmente ai sensi della normativa vigente.

Mathematica

Lean Management