


Enrico GUGLIELMINO




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EDUCATION

- 10/08/2022 - up to present * **Ph.D. in Pure And Applied Mathematics**
Politecnico di Torino
- 10/11/2019 - 10/04/2022 * **Master's Degree in Mathematical Engineering**
Politecnico di Torino
Thesis: Cryptography and Mining
Supervisors Di Scala A.
Final grade 110/110
- 08/23/2016 - 10/08/2019 * **Bachelor's Degree in Mathematics For Engineering**
Politecnico di Torino
Thesis: Problemi Variazionali
Final grade 95/110
- 2016 **high school diploma MATURITA' SCIENTIFICA**
Final grade 85/100

INTERNATIONAL EXPERIENCE

- 07/01/2014 - 07/31/2014 **INPDAP**
Cork - IRELAND
High school international project, intensive english courses.
- 11/20/2011 - 11/26/2011 **Comenius**
Vienna - AUSTRIA
Cultural exchange with many group projects and english courses.
- 10/24/2010 - 10/30/2010 **Comenius**
L'Aia - NETHERLANDS
Cultural exchange with many group projects and english courses.

PROFESSIONAL EXPERIENCE

- 10/01/2021 - 03/01/2022 **Student**
Ping-s srl - Cuneo - ITALY

The aim of the project was the realization, at the client's premises, of an experimental mining rig prototype, by reusing the GPUs owned by the client, in particular 8 Nvidia 1080Ti (11GB GG DDR5X). Once the rig was assembled we started to experiment with overclocking, temperature control settings, core clock offset, memory clock offset and power limit in order to get best combinations in terms of hashrate and power consumption. During this period I wrote a program to predict the daily average profit of miners.

Thesis project

LANGUAGE SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user

[Common European Framework of Reference for Languages](#)

COMPUTER SKILLS

OPERATING SYSTEM iOS, Windows, Linux
good level

PROGRAMMING LANGUAGE/CODE C / C ++, Python, Java.
good level

PROGRAMS/SOFTWARE MATLAB, R, LaTeX, Comsol Multiphysics, Ansys Fluent Benchmarks 19, LUSAS, Word, Power Point.
advanced level

DATABASES MySQL
basic level

GRAPHICS Photoshop
basic level

SPREADSHEET Excel
good level

PERSONAL SKILLS/OTHER SKILLS

Projects:

- Discretization and solution of PDE's using FEM, FDM and FVM
- Social system with wealth exchange
- Ethereum addresses and Standard EIP-55
- Simulation of Rheotaxis
- Constrained minimization problem
- Simulation of flows around a squat body
- Perturbation theory
- Algebraic problems on the triangulation of a domain

Attendance of seminars on Blockchain, Bitcoin and privacy.

Personal skills:

- Problem solving
- Modeling
- Leadership
- Strong motivation,

- Excellent logical, analytical and computational skills.

Interests:

- Cryptography
- Mining
- Blockchain
- Privacy and security
- Quantum cryptography
- Game theory
- Neural graph network

Other skills:

- Volunteer activity to give math tutoring to high school students.
- Music: singer, musician and composer. Master and Mix. Instruments: guitar, cello.
- Software: Garage Band, Logic Pro, Ableton.
- Artist profile on Spotify with 3 publications.
- Sport: gym and football.

OTHER INFORMATION

Driving license

EXAMS *

Master's Degree in Mathematical Engineering

conference date	Exam	Credits	Final grade
01/28/2020	Variational methods and application	8	30
03/18/2020	Numerical methods for partial differential equations	8	30
07/22/2020	Transport models and kinetic theories	10	28
09/15/2020	Cryptography	6	25
02/15/2021	Fluid Mechanics	8	30
02/23/2021	Dynamics over networks	6	27
06/24/2021	Blockchain and cryptoeconomy	6	30
07/19/2021	Computational fluid dynamics and wind engineering	12	29
09/18/2021	Continuum Mechanics	8	29
01/27/2022	Mechanical systems dynamics	6	28
02/25/2022	Mathematical models for biomedicine	8	30 cum laude
07/08/2022	Nonlinear systems for engineering	6	25
07/14/2022	Solid and fracture mechanics: computational models and methods	6	29
09/13/2022	Mechanics of Porous Media	6	28
10/04/2022	Thesis	16	passed

Bachelor's Degree in Mathematics For Engineering

conference date	Exam	Credits	Final grade
01/31/2017	Mathematical analysis I	10	26
02/03/2017	Computer science	8	26
06/19/2017	Chemistry	8	21
06/26/2017	Linear Algebra and Geometry	10	25
06/30/2017	History of contemporary philosophy	6	19
07/07/2017	Physics I	10	24
02/09/2018	Physics II	6	28
02/19/2018	Mathematical analysis II	8	30 cum laude
06/25/2018	Mathematical methods for engineers	10	26

07/02/2018	Programming and scientific computing	8	29
07/04/2018	Discrete Mathematics	6	26
07/06/2018	Analytical Mechanics	8	27
07/25/2018	Fundamentals of structural mechanics	8	22
02/06/2019	Differential and Computational Geometry	6	25
02/22/2019	Equations of Mathematical Physics	8	23
06/01/2019	English Language 1st level	3	passed
06/25/2019	Numerical methods	8	25
06/26/2019	Fundamentals of nuclear physics	6	26
07/04/2019	Functional analysis/Partial differential equations	12	19
07/13/2019	Introduction to Algebra and Geometry	10	19
09/09/2019	Probability and statistics	10	24
09/11/2019	Applied thermodynamics and heat transfer	8	22
10/08/2019	Final essay	3	passed

* Fields marked with an * are certified by Politecnico di Torino, while the potential thesis description is added by the candidate.