



## Personal information

Surname / First name	<b>Clerici, Davide</b>
Address	Pecetto Torinese, Italia
Telephone	3291143427
Personal Email	davecle94@gmail.com, davide.clerici@studenti.polito.it
Nationality	Italian
Date of birth	9 November 1994
Gender	male

## Work experience

Date	2020 – up to present
Occupation or position held	Research grant at DIMEAS department - Politecnico di Torino
Date	2017 – up to present
Occupation or position held	Mountain-bike guide - Occasional work
Date	2016 – up to present
Occupation or position held	Mountain-bike instructor and board member of the sports association " <i>Di tutti i Sentieri ASD</i> "
Date	2015 – up to present
Occupation or position held	Private lessons in mathematics, physics and chemistry to high school students

## Education and training

Place and Date	Politecnico di Torino, October 2017 – December 2019
Title of qualification awarded	MSc in Mechanical engineering
Thesis	Numerical and experimental analysis of aging mechanisms in lithium ion cells
Grade	107/110
Place and Date	Politecnico di Torino, October 2016 – July 2017
Title of qualification awarded	Individual teachings: Elements of drawing and machine design, Elements of thermal machines, Industrial plants and work safety, Mechanical Technology
Place and Date	Politecnico di Torino, October 2013 – October 2016
Title of qualification awarded	BSc in Environmental engineering
Thesis	Vertical electrical survey on Candia lake
Grade	92/110
Place and Date	Scientific high school A. Monti, September 2008 – July 2013

Title of qualification awarded  
Grade

High school diploma  
80/100

## Personal skills and competences

Mother tongue  
Other language(s)

*Self-assessment  
European level<sup>(\*)</sup>*

**English**  
**French**

## Italian

English, French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2
B1	B1	A2	A2	A2

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

Certification(s)

IELTS: 6.5, 2013

Technical skills and competences

Good knowledge of finite element analysis, numerical modeling, CAD drawing and mechanical design.

Computer skills and competences

*Operating system:* Good knowledge of Microsoft and basic knowledge of Apple  
*Programming language:* Good knowledge of C

*Numerical calculation program:* Excellent knowledge of Matlab

*Finite element analysis program:* Excellent knowledge of Ansys APDL and Ansys workbench, good knowledge of Hypermesh and Inspire

*CAD program:* Excellent knowledge of Solidworks and CATIA V5

*Writing program:* Excellent knowledge of Latex and Word

*Spreadsheet:* Good knowledge of Excel

Driving license(s)

B

## Publications

Journal papers

Davide Clerici, Francesco Mocera, Aurelio Somà, "**Analytical solution for coupled diffusion induced stress model for lithium-ion battery**", *Energies*, 2020. (submitted)

Conference papers

Davide Clerici, Francesco Mocera, Aurelio Somà, "**Micro-scale modeling of lithium-ion battery**", *MIMEMS 2020*. (Accepted)

Francesco Mocera, Aurelio Somà, Davide Clerici, "**Study of aging mechanisms in lithium-ion batteries for working vehicle applications**", *EVER 2020*. (Accepted)

## Additional information

Student collaborations

Member of the Policumbent student team in the academic year 2017-2018, which aims to build a recumbent bicycle prototype to compete in speed competitions for human-powered vehicles.

Free time activities

I practice various sports activities, including rock climbing, alpinism, ski mountaineering and mountain bike. In the latter activity i compete in international races since 2012, with excellent results.

Nature and mountain lover.