



# ELEONORA ANDREIS

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## EDUCATION

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**PhD in Aerospace Engineering**  
*Politecnico di Milano, Milan, Italy.*

*February 2021 - Ongoing*

**MSc in Space Engineering**  
*Politecnico di Milano, Milan, Italy.*

*September 2018 - December 2020*

Final Mark: **110 cum laude/110**

- Final thesis: "Deep Space Autonomous Navigation for Stand Alone CubeSats"

**Erasmus program**  
*Université de Liège, Liège, Belgio.*

*February 2019 - June 2019*

**BSc in Aerospace Engineering**  
*Politecnico di Milano, Milan, Italy.*

*October 2015 - September 2018*

Final Mark: **106/110**

**Diploma di Liceo Scientifico**  
*Liceo Scientifico Primo Levi, Verona, Italy.*

*September 2010 - July 2015*

Final Mark: **97/100**

## WORKING EXPERIENCE

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**PhD in Aerospace Engineering**  
*Politecnico di Milano, Milan, Italy.*

*February 2021 - Ongoing*

- Member of the DART group supervised by prof. Francesco Topputo.
- Member of the *EXTREMA* (Engineering Extremely Rare Events in Astrodynamics for deep-space Missions in Autonomy) project, winner of the ERC grant in 2019.
- Research topics: autonomous optical navigation for interplanetary CubeSats, image processing algorithms for unresolved objects, orbit determination techniques suitable for miniaturized probes.

**Tutoring activities**  
*Politecnico di Milano, Milan, Italy.*

*March 2020 - July 2020*

- Preparation of theoretical and practical lectures in preparation of the exam of "Fluidodinamica".
- Lessons were provided online via Teams.

## EXTRACURRICULA ACTIVITIES

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**Participation at the ESA Concurrent Engineering Challenge**  
*Politecnico di Milano, Milan, Italy.*

11/11/2019 15/11/2019

- In the challenge my role consisted in the design of the thermal subsystem of a spacecraft for a scientific mission to Enceladus.
- I played the role of team leader for part of the challenge during which I coordinated the activities of the group and I presented to the commission the results of the progress meetings.

**Skyward Experimental Rocketry Membership**  
*Politecnico di Milano, Milan, Italy*

October 2017 December 2018

- Skyward is a Student Association of the Politecnico di Milano. In particular, I joined the "Integration" subsystem in the Structures department. My role involved designing the components with SolidWorks and integrating them in the Rocksanne 2-alpha rocket.

**Participation at ESO Astronomy Winter Camp**

26/12/201401/01/2015

*Astronomy Observatory of the Aosta Valley, Saint Barthlemy, Italy*

**Federazione Italiana Di Atletica Leggera Membership**

2007 - 2016

Verona - Milan

- From 2014 to 2016, I have practiced athletics at a professional level, specializing in long jump and participating in national and international competitions.

**TECHNICAL AND TRANSVERSAL SKILLS**

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**Modelling and Analysis**

Matlab, Solidedge, Solidwork, Autodesk Inventor, Siemens Nx, Simcenter, OCDT, Simulink, 3DOptix

**Software & Instruments**

MS Office, Latex, Overleaf, Raspberry-Pi

**Languages**

*Italian*, native speaker

*English*, advanced speaker [TOEIC (910/990) (2018), OLS (C1) (2019)]

**PERSONAL TRAITS**

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🔦 I am very curious about different fields of scientific research, mainly astronomy and geology

🕒 Thanks to the practice of competitive sports, I have developed an important organizational capacity and ability to work under pressure

👥 The Erasmus and academic experience led me to cultivate the skills necessary to create a serene and efficient group working environment

✈️ I love travelling and in my free time I enjoy reading historical and fantasy novels

**ACADEMIC PRIZE**

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- Winner of the scholarship for sporting and scholastic merits offered by the Politecnico di Milano 2015.