

# Dario Lunni

*Mechatronics engineer*

*"Mechatronics engineer with extensive experience in R&D"*

## Work Experience

- Jun.'21 – Pres. **Mechatronics Engineer**, private company, Pisa.  
Design and development of mechatronics systems and accessories for industrial robotic platforms.
- Mar.'20 – Pres. **R&D Mechatronics engineer**, ARCH Laboratory, Pontedera.  
Design and development of mechatronics systems for laboratory automation, from conception to prototype. Main activities involved design of mechanical components, electronics design and integration for automatic systems.
- Oct.'16 – May.'20 **Ph.D. candidate in BioRobotics**, Scuola Superiore Sant'Anna - IIT, Pontedera.  
Joining the Bio-Inspired Soft Robotics department I worked on the integration and characterization of smart materials, with emphasis on production of nanofibers membrane and soft systems.
- Jun.'16 – Aug.'16 **Junior Mechanical Engineer**, private company, Piacenza.  
Worked on mechanical design and industrial process simulations of robotic systems.

## Education

- Oct.'16 – May.'20 **Ph.D. cum Laude in BioRobotics**, Scuola Superiore Sant'Anna, Pisa.
- Feb.'14 – Apr.'16 **M.Sc. in Robotics and Mechatronics**, 108/110, Politecnico di Milano, Milan.
- Apr.'15 – Oct.'15 **Foreign exchange for Master Thesis**, IRI - UPC, Barcellona.
- Sep.'10 – Sep.'13 **B.Sc. in Mechanical Engineering**, 110L/110, Politecnico di Milano, Milan.

## Main Publications

- Lunni, Dario, et al. "Light-assisted electrospinning monitoring for soft polymeric nanofibers." Scientific reports 10.1 (2020): 1-12.
- Lunni, Dario, et al. "Plant-inspired soft bistable structures based on hygroscopic electrospun nanofibers." Advanced Materials Interfaces 7.4 (2020): 1901310.
- Lunni, Dario, et al. "Nonlinear model predictive control for aerial manipulation." 2017 Unmanned Aircraft Systems (ICUAS), International Conference.

## Skills

- Basic Programming skills in C/C++ and Python, experience with VisualComponents and COMSOL, L<sup>A</sup>T<sub>E</sub>X
- Advanced Advanced programming skills using MATLAB and Simulink, extensive experience in design using SolidWorks and EasyEda

## Languages

- Italian **Mothertongue**
- English **Intermediate**
- Spanish **Basic**

*First Certificate in English (B2)*