



Petar Lonić

Date of birth: 12 Oct 1998 | **Place of birth:** Zadar, Croatia | **Nationality:** Croatian |

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WORK EXPERIENCE

RESEARCH ASSISTANT – FACULTY OF MECHANICAL ENGINEERING AND NAVAL ARCHITECTURE – Oct 2023 – Current – ZAGREB, CROATIA

- Department of Energy, Power and Environmental Engineering, Chair of Energy and Power Engineering
- European research projects - implementation and management:
 - GARDEN
 - StoreMore
- Scientific research
- Preparation of research project proposals

PROJECT ASSISTANT – FACULTY OF MECHANICAL ENGINEERING AND NAVAL ARCHITECTURE – Dec 2022 – Oct 2023 – ZAGREB, CROATIA

- Student job
- Department of Energy, Power and Environmental Engineering, Chair of Energy and Power Engineering

PROJECT ASSISTANT – CENTER OF TECHNOLOGY TRANSFER – Jun 2022 – Dec 2022 – ZAGREB, CROATIA

- Student job

EDUCATION AND TRAINING

OCT 2024 – CURRENT

PHD Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb

Field of study Process and energy engineering |

Thesis Modelling the Integration of Desalination Plants into Sector-coupled Smart Energy Systems with High Penetration of Renewable Energy Sources

2021 – 2023 Zagreb, Croatia

MASTER OF MECHANICAL ENGINEERING Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb

2017 – 2021 Zagreb, Croatia

BACHELOR OF MECHANICAL ENGINEERING Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb

PROJECTS

1 JAN 2024 – 30 SEP 2026

Greener AgRo-fooD logistics in the mEditerraneaN area (GARDEN), Interreg Euro-MED

The project aims to make more ecological logistics for food supply and the management of bio-waste, packaging, and used containers in Mediterranean cities, in order to reduce their impact on citizens and the global climate system. To do this, 6 pilot demonstrators will be set up in Spain, France, Italy, Greece, and Bulgaria, which will support experiments for the ecological transition. Modeling and sizing work on suitable infrastructures, based on renewable

energy (eg: charging stations with photovoltaic panels) and bio-fuels should make it possible to showcase the feasibility of carbon-free alternative solutions

1 JAN 2024 – 30 JUN 2026

Analysing and promoting energy storage solutions, developing tools to mitigate the intermittency of RES,contributing to an accelerated transition to renewable energy and more balanced electrical grids (StoreMore), Interreg Danube

The projects main objective is to increase the share of RES in the Danube region by tackling a major obstacle to further growth of RES: the problem of energy storage.
As the result of the project RES operators will be encouraged to invest in storage capacities, the intermittency of RES will be partially mitigated, contributing to more balanced and stable national electricity grids. The project will provide solutions for modelling storage systems and optimising RES operation.

Other Projects

- DAWETREST - Horizon 2020 project combining energy efficiency and biodiversity preservation in Danube
- Bilateral projects between Croatia and China
- ADRIONWIND- Interreg IPA-Adrion project focusing on development of offshore wind energy in Adriatic-Ionian
- BLUECEE- EUKI project which aims at strengthening the capacity and readiness for multi-level governance of sustainable energy deployment in Bulgaria, Croatia, Poland, and Romania in the region of the Black-Adriatic-Baltic Sea.

● **LANGUAGE SKILLS**

Mother tongue(s): **CROATIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C2
ITALIAN	A2	A2	A1	A1	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **SKILLS**

Microsoft Office | Python | MATLAB | SolidWorks

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Communication

Ability to clearly communicate the core ideas:

- scientific conferences, scientific papers
- collaboration on research and development
- project implementation and applications
- mentoring students and assisting in lecturing

International research:

- prepared for communication with people from diverse cultures
- experienced in presenting the research and the group in good light
- discovering the possibilities for collaboration and common topics

● **ORGANISATIONAL SKILLS**

Managing Research Projects

Organisational skills advanced in managing EU projects and preparing project proposals:

- capability to choose good solutions for the way forward during discussions
- extensive technical and digital skills
- delivering results on tight schedule