



Eduardo Terzidis

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● EDUCATION AND TRAINING

01/02/2020 – 01/05/2020 – Wairoa, New Zealand

Gardening Masterclass – Koanga Institute

Regenerative Agriculture Training. Main areas of study:

- Biointensive gardening
- Soil management
- Design and maintenance of food systems
- Soil science
- Compost production

01/08/2019 – CURRENT – California, United States

International Diploma of Permaculture – Gaia University

Online course

Main topics: Regenerative Social, Economical and Environmental Structures and Sustainable Education

03/01/2020 – 31/01/2020 – Ubud

Sacred Heart 200 hrs Yoga Teacher Training – Yoga Alliance

01/10/2014 – 15/07/2016 – Chicago, United States

Master of Science in Mechanical Engineering (TOP UIC double degree project) – University of Illinois at Chicago

Thesis: "Design and Optimization of a Re-configurable Vehicle Chassis for Shared Use Applications"

01/10/2014 – 15/07/2016 – Turin, Italy

Master of Science in Mechanical Engineering – Politecnico di Torino

Thesis: "Design and Optimization of a Re-configurable Vehicle Chassis for Shared Use Applications"

Grade: 107/110

01/10/2011 – 15/07/2014 – Turin, Italy

Bachelor Degree in Mechanical Engineering – Politecnico di Torino

Thesis: "Stress analysis of the chassis of a portable electric scooter"

Grade: 99/110

● **WORK EXPERIENCE**

CURRENT

CONSULTANT AND TEACHER

Main areas of consultancy: Renewable energies, Landscape Regeneration, Compost Toilets, Animal Management, Water Management and Treatment, Facilitation of Group Dynamics, Agroforestry and Food Production

Teacher of courses focused on regenerative agriculture, resource management, renewable energies.

CURRENT

YOGA TEACHER

- Co-Founder of the "Nature Yoga" method: a practice focused on self and environmental ecology.
- Organisation of workshops and retreats focused on self-ecology and interconnection between humans and the environment.
- Residential teacher at Pranama studio in Lisbon (Hatha Flow, Yin and Restorative classes)

01/02/2020 – 15/05/2020

INTERNSHIP AND PROJECT MANAGER – Koanga Institute

- Project manager for the development of a Social Enterprise structure for the expansion of the institute.
- Consultancy service.
- Holistic management of cows, sheep, goats and chickens (grazing schedule, milking, cheese production, butchery).
- Business plan and development of commercial activities.
- Development of urban farming research project
- Maintenance and development of regenerative food gardens.
- Waste water treatment.
- Maintenance of food forest and forest garden.

Wairoa, New Zealand

01/02/2020 – 17/05/2020

PERMACULTURE DESIGNER AND FILM MAKER – ReGeneration Production

Online platform for regenerative education focused on sustainable agriculture and Permaculture.

Main tasks: Producer, Lead developer for production of educational content and development of educational demonstration site.

15/11/2019 – 13/12/2019

INTERNSHIP – Permaculture Research Institute of Australia

Intership with Geoff Lawton at the project "Greening The Desert" in Jordan.

Main tasks: Learning and applying techniques to re-forest and manage a desertified area in Jordan. Monitoring the health and advancement of the new-growing forest and expanding it with new installations. Supporting the learning process offering workshops on renewable energy and compost production.

Main systems developed: Reed beds for wastewater recycling, landscape design for water efficiency and soil regeneration (e.g. swales for increased water absorption), monitoring and maintenance of agroforestry system, maintenance of animal system, upgrade of compost toilets, design and maintenance of nutrient cycles within the site

Amman, Jordan

01/06/2018 – 31/12/2018

RESEARCHER AND PERMACULTURE DESIGNER – Alchemia-Nova

Horizon 2020 research and innovation projects

- Main research topics: plant-based technologies, nature based solution for water and waste management, water management, energy efficiency and food production in buildings and villages, closed loops, sustainable buildings.
- Main systems developed: compost cultivator, biogas cultivator, aquaponic system, green house for passive conditioning of household, stand alone unite for indoor air treatment, proposal writing.
- Key approaches: Circular Economy, Cradle to Cradle, Biomimicry, Permaculture, Organic Food Production, Hydroponics, Aquaponics.

Main projects of interest:

- Houseful, grant agreement no. 776708, <http://houseful.eu/>

Main tasks: design of water and waste recovery loops, manufacturing of prototypes, testing, dissemination, project management.

- Hydrousa, grant agreement no. 776643 <https://www.hydrousa.org/>

Main tasks: Design, manufacturing and testing prototypes, dissemination, project management.

- Recost, grant agreement no. 768576 <https://reco2st.eu/>

Main tasks: Engineering modeling and design, manufacturing and installation, engagement with partners and communities, new projects and proposals.

- GreenInstruct, grant agreement no.723825 <https://www.greeninstruct.eu/>

Main tasks: Design of modular facades elements, installation and monitoring of water cycle

Vienna, Austria

01/03/2018 – 31/03/2018

INTERNSHIP – Autarky Farm

Commercial Permaculture farming

Main roles: maintenance organic garden market and cattle system, natural building.

Australia

01/05/2017 – 30/04/2018

FOUNDER – Eduardo Terzidis Surfboards

- Research of innovative eco-friendly solutions for the fabrication of surfboards.
- Designing and manufacturing of hand-made surfboards.
- 3D models design.
- Publication of articles.

01/09/2017 – 31/10/2017

INTERNSHIP – Wegener Surfboards

- Manufacturing of eco-friendly surfboards
- Writing of articles on the topic

Noosa Heads, Australia

01/03/2016 – 31/03/2017

RESEARCHER/MECHANICAL ENGINEER – Delft University of Technology and KitePower (Former Enevate BV)

Horizon 2020 project. Grant agreement no. 691173

- Research for the building of a flying kite prototype to be used to obtain electrical energy from the wind.
- Research focused on "High precision state estimation on tethered air foils for airborne wind energy".
- Design of sensor fusion algorithms.
- Installation and integration of sensors on the system.
- Structural design of automatic launch and landing prototype.
- 3D modeling, analysis and optimization of the prototype.
- Field tests.
- Design of sensor fusion algorithms to obtain position, velocity and apparent wind speed of the wing.
- Mechatronic assemblies design and manufacturing to update and improve the Control Unit of the system.
- Design reviews.
- Conferences attendance and presentations.

Delft, Netherlands

01/02/2017 – 01/04/2017

VOLUNTEER – Schumacher College

Educational centre focused on holistic sustainable living, permaculture and circular economy principles.

- General volunteering jobs in permaculture garden and maintenance of the centre.
- Attendance of seminars and workshops.

Totnes, United Kingdom

01/09/2015 – 01/12/2015

RESEARCH ASSISTANT – University of Illinois at Chicago

- Research on microbial fuel cells.
- CAD modeling and dimensioning of the cell for 3D printing manufacturing.
- Chemical experiments.

Chicago, United States

01/01/2014 – 31/03/2014

INTERTNSHIP – Danisi Engineering srl

- CAD modeling, optimization and structural analysis of the chassis of an electric portable mobility device.
- Design reports.
- Evaluation of costs and time for the realization of the project.
- Procurement of material suppliers and partners.
- Management of quality control and manufacturing procedures.
- Following and coordinating manufacturing processes.
- Mechanical assemblies, welding, CNC machining, Turing, cutting, drawings integration with tolerances.

Turin, Italy

● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
PORTUGUES E	C2	C2	C1	C1	C1
SPANISH	C1	C1	B1	B1	A2
FRENCH	B1	B1	A1	A1	A1

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

● NETWORKS AND MEMBERSHIPS

Memberships

2016/2017 Member of Engineers Without Borders Netherlands: various engineering projects for third world countries.

November 2016 to February 2016 Member of Nova Bike team: design and build an electric racing motorbike.

August 2015 to December 2015 UIC motorsport FORMULA SAE member: design and built a formula-one like car to race with during the annual meeting.

2014/2016 Engineers without borders Italy (Politecnico of Turin)

2014/2016 Pace RSMS student team (Politecnico of Turin): design and production of a re-configurable electric car.

2013/2014 2WheelsPolito student team: design and production of a grand prix motorbike.

2011/2014 Pace PAMD student team (Politecnico of Turin): design and production of a portable, electrical mobility device.

● DRIVING LICENCE

Driving Licence: **AM**

Driving Licence: **A1**

Driving Licence: **A2**

Driving Licence: **A**

Driving Licence: **B**

● CONFERENCES AND SEMINARS

Conferences

19th of October 2017: Earthship Biotecture seminar. A lecture held by the founder of Earthship on natural building and some aspects of designing and building an off the grid house with built-in green house using soil and recycled materials (Sydney, Australia).

14th, 15th and 16th of June 2016: Greentech conference (Amsterdam, Netherlands). Annual horticulture conference. Main topics: water, energy, bio-based, crops.

2nd and 3rd of June 2016: European Space Solutions conference (The Hague, Netherlands).

3rd of November 2015: TCbiomass 2015 conference in Chicago (Illinois, USA). Annual conference about biomass gasification, pretreatment, pyrolysis, and upgrading to explore progress in the bioeconomy.

● PROJECTS

Projects

2019 - 8 Months land based project in Portugal. Main developments: compost toilet (build with material from the land), set up of crop garden and drip irrigation system, refurbishment of cob house, grey water treatment, solar system maintenance.

September 2015 to January 2015 Class project for the design of a solar panel system to provide hot water storage to a building. Numerical modeling of heat exchange in the solar collectors. Maximum grade scored.

● HONOURS AND AWARDS

Honours and awards

2019 Tuition fee scholarship from Gaia University for participating to the International Diploma of Permaculture program

2016 Sponsorship from NASA and the European Space Agency covering travel expenses to attend the 14th Annual INTERNATIONAL WORKSHOP ON ENVIRONMENT AND ALTERNATIVE ENERGY

2015 PACE RSMS (held by Siemens and General Motors): Engineering Design award, Exterior Design award.

2014 TOP UIC project. Won position for double degree project with the University of Illinois at Chicago based on English proficiency and GPA.

2013 PACE PAMD annual global forum (held by Siemens and General Motors): Award for the best project, Engineering Design award, Exterior Design award.

2013 SEC-U project. Won a scholarship to spend a semester at University of Tennessee (Knoxville, Tennessee, USA).

● ORGANISATIONAL SKILLS

Organisational skills

- Willful with high organizational skills.
- Fast and effective in getting jobs done respecting the standards and with attention to details.
- Very good skills in time and cost estimation gained during multiple experiences as a team leader and procurer.
- Ability to manage time in a super effective way, gained while working in several different projects at the same time.
- Great managerial skills gained while being the leader of two international engineering teams.
- Capable of assigning tasks and following every step of a project.
- Extreme flexibility and adaptability to emergencies and changes gained while being involved in multiple early-stage projects.

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Communication and interpersonal skills

- Excellent written and verbal communication skills.
- Friendly, easily get adapted to new environments and any kind of situation due to multiple international experiences.
- Good understanding of communication needs gained while being a leader of two engineering teams.
- Great ability to communicate with people speaking different languages.
- Management of international communication gained through multiple international projects that required coordination between different teams.

● **OTHER SKILLS**

Other skills

- Great capability to work in Team and to share goals and objectives.
- Great interest to work in multicultural international environments.
- High leadership skills.

● COURSES AND WORKSHOPS

Courses and Workshops

October 2019: Permaculture Design Certificate

February 2019: One day introduction to Sociocracy and consensus decision making

October 2018: One day Horizon2020 project management course

July 2018: Biomimicry workshop for the design of a compost cultivator. Workshop organizer: Bioversum non-profit organization

May 2018: Engineering Design for Circular Economy online course from TUDelft.

August 2017: Australian White Card Certificate. Building site health and safety training.

September 2016 to January 2017: Airborne Wind Energy Course at TUDelft held by Prof. Roland Schmehl.

November 2016: Welding workshop at J.Breuer B.V. (Netherlands). Theory and practice of Tig, Mig and electrode welding.

September 2016: Machinery workshop training. Safety and usage training for mechanical machinery (drill, lathe, milling etc...) at TUDelft.

7th to 15th of June 2016: AWESCO summer school (Limerick, Ireland). Annual Airborne Wind Energy workshop. Half-yearly workshop of the Airborne Wind Energy research group. Topics: State estimation; interconnection of multiple wind energy devices; electrical machine control with FPGA graphical programming; energy systems modeling and renewable energy integration; technical writing for engineering; flight mechanics and stability.

August to December 2015: Industrial Buildings Energy Management and Conservation.

September 2015: Laboratory safety training (certificate obtained) at University of Illinois at Chicago.

● PRESENTATIONS

Presentations

1st to 4th of October 2018: 2nd Young Water Researchers Symposium Achem. Presentation: "Greywater purification in prefabricated façade elements derived from construction and demolition waste "; poster session: HYDROUSA – Water in the context of the circular economy

18th to 21st of October 2016: 14th Annual INTERNATIONAL WORKSHOP ON ENVIRONMENT AND ALTERNATIVE ENERGY in Pasadena (California, USA): presentation and poster session about Airborne Wind Energy and sensor fusion applied to it.

7th to 15th of June 2016: AWESCO summer school (Limerick, Ireland). Presentation on the state of the art and research being done about state estimation and sensor fusion in Airborne Wind Energy.

27th to 30th of July 2015: PACE annual forum (San Paolo, Brazil). Member of a team which designed a re-configurable electric car. Representative of the engineering part of the team: presented the design, optimization and manufacturing of the chassis of the car.

27th of July to 1st of August 2014: PACE annual forum (Turin, Italy). Member of a team which designed a foldable electric scooter. Representative of the engineering part of the team: presented the design, optimization and manufacturing of the chassis of the scooter.

● ARTICLES AND PAPERS

Articles and Papers

- [J.Kisser, E. Katsou, S. Malamis, E.Terzidis] "HYDROUSA – Water in the context of the circular economy", Wetland Systems for Water Pollution Control, International Water Association, 30 September – 4 October 2018, UPV, Valencia, Spain

-[G.Vassallo,C.Zehetbauer,J.Kisser,H.Gattringer,E.Terzidis] "Greywaterpurificationin prefabricated façade elements derived from construction and demolition waste", Wetland Systems for Water Pollution Control, International Water Association, 30 September – 4 October 2018, UPV, Valencia, Spain

- [Gaetano Bertino, Eduardo Terzidis, Andrea Zrauning] "Innovative circular solutions and services for new buildings and refurbishments", Volume 183 of the WIT Transactions on the Built Environment, presented at the 7th International Conference on Harmonisation between Architecture and Nature, 2 – 4 October 2018 New Forest, UK

- [Eduardo Terzidis] "Finless shaping: la revolución de las tablas sin quillas", Surfer Rule magazine, publishedon18/12/2017 <http://www.surferrule.com/tablas-sin-quillas/>

- [Eduardo Terzidis] "Design and optimization of a re-configurable vehicle chassis for shared use application", published by the library of the University of Illinois at Chicago.

- [Eduardo Terzidis] "Finless Shaping", 4Surf Magazine, published on 24/10/2017 <http://www.4actionsport.it/finless-shaping/>

- [Eduardo Terzidis] "Le origini del surf: i Paipo", 4Surf Magazine, published on 16/11/2017 <http://www.4actionsport.it/le-orgini-del-surf-paipo/>

- "*Le origini del surf: i Paipo*", 4Surf Magazine, published on 16/11/2017 <http://www.4actionsport.it/le-orgini-del-surf-paipo/>

● PASSIONS AND HOBBIES

Passions and Hobbies

Surfing, yoga, philosophy, kitesurfing, supermotard, motorbikes, free climbing, innovation, snowboard, graffiti drawing, skateboarding, music, mountain biking, renewable energy, traveling, reading, meditation, vegetarianism.