



Giuseppe Brando

Phd student

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EXPERIENCE

- [11/2025 – present] **Board of Directors**
ATENA (Italian Association of Naval Architecture), Eastern Sicily Section.
- [09/2025 – present] **Tutor**
for orientation and outreach activities of the MEB (Messina Energy Boat) team for the course in Science and Logistic of the Maritime and Air Transport).
- [09/2025 – present] **Representative**
of Engineering PhD students and research fellows, Department of Engineering, University of Messina.
- [07/2025] **12° Monaco Energy Boat Challenge**
Main activities and responsibilities: Team Leader;
- [06/2025] **Local Organizing Committee**
for the International Conference on Ship & Maritime research (NAV 2025).
- [12/2024 – present] **Research group**
NETTUNO (UNIME): progettazione grEen e lighTweight di navi e strutTURE off-shore per la mobilit  sosteNibile e blue grOwth.
- [09/2022 – present] **Team Leader**
Messina Energy Boat (MEB) – Messina (ME).
Company sector: engineering and design.
Main activities and responsibilities: design and construction of the ship for the international competition Monaco Energy Boat Challenge and coordination on the team.
- [10/2024] **1° Sardinia Innovatibe Boat Week**
Main activities and responsibilities: Team Leader;
- [07/2024] **11° Monaco Energy Boat Challenge**
Main activities and responsibilities: Team Leader;
- [10/2023 – 06/2024] **Stage**

Circolo del Tennis e della Vela – Messina (ME)

Main activities: sea trials of the MEB boat. Planning and monitoring of activities.

[03/2023 – 05/2024] **University tutor**

Università degli Studi di Messina – Messina (ME)

Main activities: support and guidance activities for students.

[07/2023] **10° Monaco Energy Boat Challenge**

Main activities and responsibilities: Team Leader;

[11/2021 – 03/2022] **Stage**

Comet – Messina (ME)

Company sector: logistics and supply chain.

Main activities: study the main logistics functions in the maritime container transport sector.

[10/2018 – 02/2019] **Erasmus**

United Kingdom – Plymouth

Main activities: work at the Copthorne hotel Plymouth.

[10/2017 – 05/2018] **School to work program**

Ormeggiatori porto di Gioia Tauro – (RC)

Company sector: maritime container transport

Main activities: ship mooring operations.

[01/2017 – 04/2017] **School to work program**

Caronte e tourist – Villa San Giovanni (RC)

Main activities: study the principal activities on board the ro – ro pax ship.

[10/2015 – 05/2026] **School to work program**

Capitaneria di Porto – Reggio di Calabria (RC)

Main activities: training preparation in the various departments to navigation.

EDUCATION AND TRAINING

[12/2024 – present] **Ph.D. student's 40th cycle**

Università degli Studi di Messina – Messina (ME)

Industrial Engineering ING – IND/02 – naval and marine construction and systems.

Thesis title: Numerical and experimental investigations of submarine cables

[09/2022 – 07/2024] **Master's degree**

Science and logistics of the maritime and air transport – LM72

Thesis title: Messina Energy Boat project: experimental analysis of the 2023/24 prototype. Supervisor: Prof. Crupi Vincenzo; Co-Supervisor: Ing. Briguglio Giovanni;

Final degree mark: 110/100 e lode

[09/2019 – 07/2022] **Bachelor's degree**

Science and technology of the navigation – L28

Thesis title: Study with non-destructive x – ray techniques on naval welded joints. Supervisor: Prof.ssa Epasto Gabriella.

Final degree mark: 109/110

PRE – UNIVERSITY STUDIES

[2013 – 2018] **Secondary school:** Transport and Logistics Naval

Final vote: 93/100

LANGUAGE SKILLS

Mother tongue: Italian

Other languages:

English

Listening: B2; Reading: B2; Writing: B2;

ESOL certificate: British Institutes Examination Board 08/02/2024 European level B2.

DIGITAL COMPETENCES

- Office automation: presentation software, web browser (word, powerpoint, excel);
- Webnote (creation web site);
- Matlab;
- Marineshift 360 (LCA Life Cycle Assessment);
- 2D DIC software Ncorr (DIC Digital Image Correlation);
- FLIR *ResearchIR Max* software (Thermography).

Data management: DBMS database.

Graphics and multimedia.

PUBLICATIONS

INTERNATIONAL JOURNALS

1. G Brando, F Distefano, F Di Carolo, V Crupi, G Epasto, U Galietti. "Dissimilar Welded Joints and Sustainable Materials for Ship Structures". Journal of Marine Science and Engineering, Vol. 13(12), 2296, 2025. ISSN: 2077-1312, DOI: 10.3390/jmse13122296.

INTERNATIONAL CONFERENCES

2. G. Briguglio, G. Brando, V. Crupi. "Green and Lightweight Boat: A Case Study of Samothrace Project". CNM 2024, Proceedings of the 4th International Conference on Nautical and Maritime Culture, from the Past to the Future, pp. 138 – 151, Venice, Italy, 28-29 November 2024. DOI: 10.3233/PMST240014. Scopus code: 2-s2.0-85216805791.
3. V. Crupi, G. Epasto, F. Distefano, G. Brando, F. Di Carolo, E. D'Accardi, U. Galietti. "Dissimilar Welded Joints for Ship Structures". NAV 2025, 21st International Conference on Ships and Maritime Research, pp. 1066 - 1074, Vol. 10, Messina, Italy, 18-20 June 2025. DOI: 10.3233/PMST250125, ISBN 978-164368610-3. Scopus code: 2-s2.0-105016224688
4. S. Bertagna, N. Taucher Marchesi, V. Bucci, G. Brando, F. Distefano, V. Crupi, A. Marinò. "Investigation on the Tensile Properties of Virgin and Recycled HDPE for Boatbuilding Applications Through Experimental Tests". NAV 2025, 21st International Conference on Ships and Maritime Research, pp. 999 - 1008, Vol. 10, Messina, Italy, 18-20 June 2025. DOI: 10.3233/PMST250118, ISBN 978-164368610-3. Scopus code: 2-s2.0-105016238537
5. G. Brando, S. Bertagna, V. Crupi, F. Distefano, G. Epasto, A. Marinò. "Experimental Techniques for the Assessment of the Mechanical Behaviour of HDPE Used in Boat Building". NAV 2025, 21st International Conference on Ships and Maritime Research, pp. 1009 - 1017, Vol. 10, Messina, Italy, 18-20 June 2025. DOI: 10.3233/PMST250119, ISBN 978-164368610-3. Scopus code: 2-s2.0-105016176241

CONFERENCE SPEAKER

1. INTERNATIONAL CONFERENCE: NAV (International Conference on Ship & Maritime research) 2025: presentation of the paper: "Dissimilar welded joints for ship structures"

INVOLVEMENT IN RESEARCH GROUPS:

1. NETTUNO (UNIME): progettazioNe grEen e lighTweight di navi e strutTUre off-shore per la mobilità sosteNibile e blue grOwth.
2. MESSINA ENERGY BOAT MEB (UNIME): Team Leader;

CO-SUPERVISOR THESIS:

1. Thesis: "Indagini numerico-sperimentali su cavi sottomarini" (SSD ING-IND/02) (Laurea Magistrale in "Scienze e Logistica del Trasporto Marittimo ed Aereo").

OTHER

Driving license: B

[21/02/2025] Winter School for Phd Student: Thermal phenomena related to stress in materials
Politecnico di Torino;

[03/2026-present] Member "Commissione Paritetica studenti-docenti".