CURRICULUM VITAE

EMANUELE VINCENZO ARCIERI

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Emanuele Vincenzo Arcieri graduated cum laude in Mechanical Engineering (LM-33) in 2016 from the University of Bergamo.

In 2021 he earned a PhD in Technology, Innovation and Management at the University of Bergamo and the University of Naples Federico II.

From 2017 to 2022 he held various research grants and contracts at the University of Bergamo.

From the a.y. 2017-2018 he carried out supplementary teaching activities for different courses of the SSD ING-IND/14 (Mechanical Design and Machine Construction) at the University of Bergamo. He is co-supervisor of some bachelor's and master's theses.

From July 2022 to June 2025 he was a fixed-term researcher (RTDA) at the Department of Management, Information and Production Engineering of the University of Bergamo.

Since 2017 he is a member of AIAS (Italian Scientific Society of Mechanical Engineering Design – Società Scientifica Italiana di Progettazione Meccanica e Costruzione di Macchine).

He is licensed to practice engineering as an Industrial Engineer - section A.

He obtained the National Scientific Qualification for the role of Associate Professor in Industrial Design, Machine Construction and Metallurgy.

He is currently a tenure-track researcher (RTT) at the Department of Management, Information and Production Engineering of the University of Bergamo.

RESEARCH ACTIVITY

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Scopus ID: 57201457382

Web of Science ID: AAR-3441-2021

Basic research

Behavior of light alloys (Ti-6Al-4V titanium and 7075-T6 aluminum alloys) under quasi-static or fatigue loads in inert and corrosive environments. Fatigue behavior of specimens with PVD (Physical Vapor Deposition) coatings. Behavior of specimens subjected to impact damage. Behavior of notched specimens. Analysis of systems under combined compression-bending loads.

Applied research

Study of high strength-to-mass ratio systems for aeronautical and nautical applications. Study of impact phenomena. Study of mobile barriers. Progressive instability of hydraulic actuators. Innovation in the healthcare sector: suspension system for an innovative sanitary compartment of an ambulance and retractable needle syringe (Italian patents).

Research method

Theoretical models for first sizing with advanced analysis perspectives and probable applications, numerical (FEM) models and experimental tests. Comparison of the results obtained with the different approaches to verify the correctness.

Projects

Emanuele Vincenzo Arcieri is included in the research group within the PNRR project "CENTRO NAZIONALE - Sustainable Mobility Center (CNMS)" - MOST with reference to the activities of Spoke 5 "Light Vehicle and Active Mobility".

He is the responsible of the research unit at the University of Bergamo and substitute principal investigator for the PRIN 2022 PNRR project entitled “Innovative multiphysical approach to aerospace metamaterials design”.