

CARLO CAIAZZO

EDUCATION & WORK EXPERIENCES

11/2024 - ON 	Post-Doctoral Research Fellow Free University of Bozen, Italy – Faculty of Engineering, NOI TECHPARK ➤ Project Inclu5ion – Developing collaborative robotic applications to support workers with disabilities in industrial manufacturing environments ➤ Member of the Chartered Institute of Ergonomics and Human Factors, UK (CIEHF)
10/2021 – 10/2024  	CISC Marie Curie International Training Network - Early-Stage Researcher Collaborative Intelligence for Safety Critical Systems - https://www.ciscproject.eu/ ➤ PhD student at Faculty of Engineering, University of Kragujevac, Serbia – Department of Industrial Engineering & Engineering Management ➤ Secondment at Irish Manufacturing Research (IMR), Mullingar, Ireland ➤ The PhD focused on the architecture to acquire real-time physiological data for physiological ergonomic assessment in Industry 4.0/5.0 settings for everyday tasks. ➤ PhD Thesis Title: Neuroergonomic Assessment of Mental Workload in Adaptive Industrial Human-Robot Collaboration. ➤ Design of experiments with collaborative robots and physiological measurements through Electroencephalogram (EEG) sensors and Electromyogram (EMG) sensors to assess mental workload.
04/2021 – 09/2021 	Internship at Megaride s.r.l. – Analyst & Software Engineer Megaride s.r.l. – Applied Vehicle Research, Naples (Italy) - Homepage - MegaRide ➤ The job position focused on vehicle data analysis for the development of innovative tyre-centered event detections and safety strategies cooperating with a team of engineers.
03/2021  	Master's Degree in Mechanical Engineering for Design & Production University of Naples Federico II, Department of Industrial Engineering, Italian Centre of Excellence, Napoli (Italy) – www.unina.it ➤ Thesis: Statistical and data processing analysis for non-destructive characterization of viscoelasticity by means of the innovative VESevo device ➤ Achievement: 110/110 cum laude – ECTS Grading Scale: A ➤ Internship at the Department of Mechanical Engineering: Laboratory tests on Motorsport tyres by means of the innovative VESevo device
02/2018 – 05/2020 	Internship Erasmusland Napoli Organisation Erasmusland Napoli Organisation (Italy) ➤ Event coordinator for volunteering activities cooperating with teams of international Erasmus students

PUBLICATIONS

1. **Caiazzo, C.**, Savković, M., Pusica, M., Milojevic, D., Leva, M.C., & DJapan, M. (2023). Development of a Neuroergonomic Assessment for the Evaluation of Mental Workload in an Industrial Human–Robot Interaction Assembly Task: A Comparative Case Study. *Machines*. <https://doi.org/10.3390/machines11110995>
2. Savković, M., DJapan, M., **Caiazzo, C.**, Pušica, M., Vukicevic, A.M., Marinković, D., & Komatina, N. (2026). Ergonomic Optimization of Assembly Workstations: Effects on Productivity and Mental Workload. *Safety*. <https://doi.org/10.3390/safety12010015>
3. **Caiazzo, C.**, DJapan, M., Savković, M., Milojevic, D., Vukicevic, A.M., & Gualtieri, L. (2025). Evaluating Mental Workload and Productivity in Manufacturing: A Neuroergonomic Study of Human–Robot Collaboration Scenarios. *Machines*. <https://doi.org/10.3390/machines13090783>