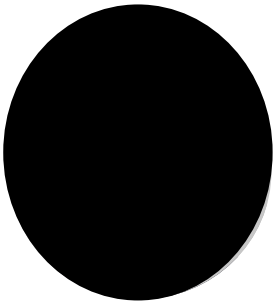
europass



Alessandro Mei

[redacted]

WORK EXPERIENCE

Structural Engineer
Freelance [06/2019 – Current]

[redacted]

Preliminary design and optimization of steel structures. Both cold-formed and hot-rolled. Software development for structural computation and automatization.
Static and seismic design of rack structures.

Design engineer
Rosss S.p.A. [02/2019 – 06/2019]

City: Scarperia e San Piero
Country: Italy

Preliminary Design, and project management of non standard racks: automatic, self-supporting, special requests. Static and Seismic design in accordance with NTC2018, EC1, EC3, EC8 and specialistic rack structures code: UNI EN 15512, UNI EN 16681.

Internship
Rosss S.p.A. [07/2018 – 02/2019]

City: Scarperia e San Piero
Country: Italy

Principles of rack structures FEM modeling, designing and verification of cold formed steel rack structures in accordance with UNI EN 15581, UNI EN 16681. Evaluation and interpretation of experimental tests on profiles and joints according to the UNI EN 15581.

EDUCATION AND TRAINING

Ph.D. in Structural Engineering
Università degli Studi di Firenze/ Technische Universität Braunschweig [11/2019 – 31/01/2023]

Address: 50139 Firenze (Italy)
Thesis: "Robustness of Automated Rack Supported Warehouses in Fires". Supervisors: Prof. Maurizio Orlando, Prof. Luca Salvatori, Prof. Paolo Spinelli, Univ-Prof. Klaus Thiele

As a part of the Ph.D. programme I spent a period abroad, studying and working at the Institute of Steel Construction in Braunschweig.

Master's Degree in Civil Engineering
Università degli studi di Firenze [09/2016 – 04/2019]

Address: 50139 Firenze (Italy)
Field(s) of study: Engineering, manufacturing and construction

Final grade: 110/110 cum laude
Thesis: "Incremental Dynamic Analyses and Non-Linear Static for Seismic Assessment of CFS Rack Structures". Supervisors: Prof. Maurizio Orlando, Prof. Luca Salvatori, Federico Gusella PhD, Stefano Lombardi P.E., Claudio Pagani PhD.

Bachelor's Degree in Civil Engineering
Università degli studi di Firenze [09/2011 – 07/2016]

Address: 50139 Firenze (Italy)
Field(s) of study: Engineering, manufacturing and construction: *Building and civil engineering*
Final grade: 96/110
Thesis: A comparison between the future regulation and the current one regarding cycle paths, a case study: Pista Ecoturistica "Sieve''. Supervisors: Prof. Eng. Lorenzo Domenichini, Eng. PhD. Monica Meocci.

LANGUAGE SKILLS

Mother tongue(s): **Italian**

Other language(s):

English

LISTENING C2 **READING** C2 **WRITING** B2

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

Spanish

LISTENING A2 **READING** A2 **WRITING** A1

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

DIGITAL SKILLS

Finite Element Software
SAP2000 / Dlubal SHAPE-THIN / AbaqusCAE (Dassault Systemes) / PRO_SAP / Strand7/ Straus7

CAD
AbaqusCAE / AutoCAD 2D e 3D / SketchUp

Numerical Analysis
Matlab

Miscellaneous
Microsoft Excel / Microsoft Office / Microsoft Powerpoint / Google Drive / OZONE3 / Zoom / Microsoft Word / Google Docs / Skype

PUBLICATIONS

Mei, A., Orlando, M., Salvatori, L., Spinelli, P., Nonlinear static and incremental dynamic analyses for seismic down-aisle behavior of rack structures
[2021]

INGEGNERIA SISMICA, vol. 38, pp. 21-45, ISSN:0393-1420

Write here the description...

Mei, A., Gusella, F., Orlando, M., A steel bracing system dissipating energy through moment-rotation hysteresis loops
[2023]

Engineering Structures, Volume 280, 2023, 115640, ISSN 0141-0296

CONFERENCES AND SEMINARS

Fire and Blast Load on RC Structures

[Università degli studi di Napoli Federico II, 13/06/2020 – 16/06/2020]

Attendee

DigitalDays - giorno 3: Strutture in acciaio, secondo ordine ed effetti locali

[Webinar, 16/10/2020 – 16/10/2020]

Attendee

Structures In Fires 2020

[The University of Queensland, Australia (Online), 30/11/2020 – 02/12/2020]

Attendee

Advanced FDS/PyroSim Fire Modeling Workshop

[Online, 03/2021 – 04/2021]

Attendee

Advanced Finite Element Analysis with ABAQUS

[Online, 09/2021 – 11/2021]

Attendee

7th International Course on Seismic Analysis of Structures using OpenSees

[Politecnico di Torino, 05/07/2022 – 06/07/2022]

Attendee

XIX Convegno ANIDIS & XVII Convegno ASSISi

[Politecnico di Torino, 11/09/2022 – 15/09/2022]

Speaker

XXVIII Giornate Italiane della Costruzione in Acciaio

[Francavilla al Mare (Chieti), 29/09/2022 – 01/10/2022]

Speaker

PROCEEDINGS

Gusella, F., Mei, A., , Orlando, M., Analysis of the nonlinear behavior of closed built-up CFS sections in four-point bending

[29/09/2022 – 01/10/2022]

XXVIII GIORNATE ITALIANE della COSTRUZIONE IN ACCIAIO, Francavilla al Mare

Mei, A., Orlando, M., Salvatori, L., On Numerical Modeling Of Collapse Of Steel Structures Exposed To Fire

[29/09/2022 – 01/10/2022]

XXVIII GIORNATE ITALIANE della COSTRUZIONE IN ACCIAIO, Francavilla al Mare

Mei, A., Orlando, M., Salvatori, L., On the seismic response of rack structures affected by pinching

Procedia Structural Integrity, Volume 44, 2023, Pages 2318-2325

Gusella, F., Mei, A., Orlando, M., An innovative ductile bracing system easily repairable after a seismic event

Procedia Structural Integrity Volume 44, 2023, Pages 790-797

MISCELLANEOUS

Impresa Campus UNIFI, 2022 - II Call

[09/2022 – Current]

Currently in the second phase of the course.

Support activities for students of Structural Analysis and Design (Prof. M. Orlando)

[11/2019 – Current]

Sector ICAR/09

Support activities for students of Design of Structures (Prof. M. Orlando)

[11/2019 – Current]

Sector ICAR/09

Support activities for graduate students

[11/2019 – Current]

Valeria Lancia, Architectural and structural design of the "Pier Cironi" secondary school in Prato. Other supervisors: Prof. Maurizio Orlando, Prof. Frida Bazzocchi, Prof. Paolo Spinelli, Dr. Cecilia Ciacci.

Elena Mazzavillani, Colonia Varese in Milano Marittima. Historical analysis with feasibility proposal for a multifunctional center and seismic improvement project. Other supervisors: Prof. Maurizio Orlando, Stefano Bertagni PhD, Prof. Francesco Lensi.

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

16/02/2023