

# MILLENE GOMES ARAUJO

## MECHANICAL AND AEROSPACE ENGINEER

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### Language Skills

Portuguese - native speaker  
English C2  
Italian B2  
German A1

### Technical Skills

MatLab  
SolidWorks  
ANSYS  
Office  
Blender  
Unity

### Certifications

TKT, University of Cambridge  
CPE, University of Cambridge

### EDUCATION

#### PhD in Aerospace Science and Technology – ongoing

Alma Mater Studiorum Università di Bologna - Forlì, Italy

Research topic: *“Extended Reality Technologies to Simulate Urban Air Mobility Scenarios”*

#### Laurea Magistrale in Aerospace Engineering - 2022

Alma Mater Studiorum Università di Bologna - Forlì, Italy

Thesis in: *“Root cause analysis applied to a finite element model's refinement of a negative stiffness structure”*

#### Laurea Ciclo Unico in Mechanical Engineering - 2018

Federal Technological University of Paraná, Brazil

Thesis in: *“Experimental and Theoretical Analysis of Thermosyphons”*

#### Technical degree in Occupational Health and Safety - 2011

Federal Technological University of Paraná, Brazil

### PROFESSIONAL EXPERIENCE

#### Internship — 03/2021 - 11/2021

Rapid Prototyping Laboratory - CIRI Aerospaziale, Forlì

Under supervision, acquired skills about additive manufacturing Polyjet Technology. Developed a literature-driven case study and review and application of elastomers in additive manufacturing. Concluded with FEM assessment of parts to be prototyped.

#### Internship — 06/2016 - 09/2016

Proojekt Engenharia e Pericias LTDA, Brazil

Assisted an engineer during measurements in the production line. Successfully conducted 5S workshops to clients. Helped keeping a close relationship to clients in order to guarantee that all requests were fully covered.

#### Scientific Research — 2016-2017

Federal Technological University of Paraná, Brazil

Assisted both professor and PhD student to develop and test a methodology for manufacturing and testing thermosyphons. Learned techniques and scientific methods as a result of direct confront with research. Was responsible for laboratory tests.

## Publications

Sandhya Santhosh, Francesca De Crescenzo, Millene Gomes Araujo, Marzia Corsi, Sara Bagassi, Fabrizio Lamberti, Filippo Gabriele Praticò, Domenico Accardo, Claudia Conte, Francesco De Nola, Marco Bazzani, Joyce Adriano Losi, Insights on state of the art and perspectives of XR for human machine interfaces in advanced air mobility and urban air mobility, Materials Research Proceedings, Vol. 37, pp 426-430, 2023.

M. Gomes Araujo, C. Conte, F. De Crescenzo, D. Accardo. "CLASSIFICATION OF EXTENDED REALITY BASED HUMAN MACHINE INTERFACES SCENARIOS FOR URBAN AIR MOBILITY". Proceedings of the 34<sup>th</sup> Congress of the International Council of the Aeronautical Sciences

F. De Crescenzo, M. Gomes Araujo "Prototyping Urban Environments towards Extended Reality-based Human Machine Interfaces for Advanced Air Mobility and Urban Air Mobility". Proceedings of the International Conference of the Associazione Internazionale Disegno e Metodi- ADM 2024