



Roberto Capparelli Marçal

EDUCATION AND TRAINING

[15/03/2017 – Current] **Ph.D. in Mechanical Sciences**

Universidade de Brasília - UnB <http://pcmec.unb.br/index.php/en/>

Address: Academic Campus Darcy Ribeiro , Asa Norte, 70.910-900, Brasília, Brazil

Field(s) of study: Mechanical Engineering - Thermal Energy

Thesis: Optimization of thermodynamic parameters in the adsorption desalination process

Main subject / occupational skills covered:

Studies of the influence of operational parameters on the performance of adsorption reactors driven by solar thermal energy applied in refrigeration and desalination processes.

[31/01/2013 – 04/03/2015] **Master in Industrial Engineering and Systems**

Pontifícia Universidade Católica de Goiás - PUCGO <https://sites.pucgoias.edu.br/pos-graduacao/mestrado-engenharia-producao-sistemas/en/background-and-introduction/>

Address: Av. Universitária, 1440 Setor Universitário, 74.605-010, Goiânia, Brazil

Field(s) of study: Industrial Engineering - Operational Research

Thesis: A Model for the Problem of Topology and Sizing in Compressed Air Networks
<http://tede2.pucgoias.edu.br:8080/handle/tede/2461>

Main subject / occupational skills covered:

Study of energy efficiency in compressed air systems through the optimization of the dimensioning process and definition of the optimal layout of networks. The solution to a bi-objective nonlinear programming problem.

[12/07/1980 – 27/01/1986] **Bachelor in Mechanical Engineering**

Universidade Federal de Uberlândia - UFU <http://www.femec.ufu.br/>

Address: Campus Santa Mônica - Mechanical Engineering Department, 38.400-902, Uberlândia, Brazil

Field(s) of study: Mechanical Engineering

[15/03/2023 – Current] **Research Fellow**

CNR - Istituto di Tecnologie Avanzate per l'energia "Nicola Giordano"

City: Messina (ME)

Country: Italy

Main activities and responsibilities:

- Conducted applied research in desalination and adsorptive cooling systems utilizing renewable energy sources and waste heat

[15/01/2016 – 15/06/2021] **Adjunct Professor - Mechanical Engineering**

Universidade Evangélica de Goiás

City: Anápolis

Country: Brazil

Main activities and responsibilities:

- Adjunct Professor in the Mechanical Engineering course in the disciplines: Thermodynamics, Heat Transfer, Fluid Mechanics, Hydraulics and Pneumatics, Refrigeration and Air Conditioning.
- Professor in the Post-Graduation (MBA) course in Production Engineering in the disciplines of Production Systems Projects and Planning and Production Systems (PCP).
- Academic and scientific research in adsorption refrigeration processes using renewable energies (solar).
- Advisor to Student Branch Goiás, ASHRAE, tutoring the student group for the development and dissemination of good HVAC systems management practices.
- I worked as "Research Coordinator" for the Mechanical Engineering course

[06/01/1987 – 20/06/2016] **CEO**

Acionar Máquinas e Serviços Ltda

City: Goiania

Country: Brazil

Main activities and responsibilities:

- Distributor and technical assistant of equipment and accessories for compressed air, compressors, dryers, distribution networks and components for manufacturing and process automation, Ingersoll-Rand, Festo.
- Specification, preparation of commercial proposals, monitoring and after-sales of systems and components for compressed air systems, Ingersoll-Rand Service management and administration of preventive maintenance contracts in compressed air compressors.
- Energy audit in compressed air systems. Project Management of implementation, assembly and commissioning of compressed air systems.
- Technical responsible engineer
- Responsible of engineering projects, administrative, financial and commercial management

[13/06/2003 – 20/12/2016] **CEO**

Univer do Brasil S/A

City: São José dos Pinhais - PR

Country: Brazil

Main activities and responsibilities:

- Italian multinational company, manufacturer of equipment and accessories for pneumatic automation.
- Implementation and training of the national network of distributors and sales force

- management responsible for attending key accounts (OEMs). CRM management.
- Production Planning and Control (PCP), supply chain, logistics, import and export
- Implementation of integrated management software Totvs MRPII / ERP .
- Responsible of engineering projects, administrative, financial and commercial management

LANGUAGE SKILLS

Mother tongue(s): Portuguese

Other language(s):

English

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

SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

Italian

LISTENING B1 **READING** B2 **WRITING** A2

SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

DIGITAL SKILLS

My Digital Skills

ANSYS (Basics) | MatLab | Microsoft Office | Mathworks Simulink | Mathworks Simscape | Engineering Equation Solver (EES) | @RISK (Palisade) | ERP | Microsoft Project

Messsina, 08 Março 2024.

Roberto Capparelli Marçal