

***JOSÉ MARIA FERNANDES MARLET***

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- **OBJECTIVES**

- ✓ **Mission:** Generate wealth and sustainability by combining available data and phenomenological knowledge, transforming problems into opportunities in a scenario of increasing complexity.
- ✓ **Vision:** To be worldwide recognized as an expert in developing new products and/or implementing new ideas.
- ✓ **Values:** reliability, curiosity, precision, accuracy, network, partnership, passion, ethics.

- **SUMMARY**

Experience of 42 years in polymer development, plasturgy and composites structures:

- ✓ Aeronautical industry: development of new composite materials and related processes for aeronautical structures.
- ✓ Polymer industry: development of new products, optimization of industrial plants, e.g: polymerization process for PAN, development of spinning process for synthetic fibers (PAN, cellulose acetate) and engineering plastics compounding based on polyamides and polyesters.
- ✓ Prospective studies on new materials and related processes for aeronautical structures.
- ✓ Science data: development of a selection method to choose and following among different stocks from enterprises in São Paulo stock exchange.

- **PROFESSIONAL EXPERIENCE**

**JMARLET Engineering and Analytics**

**Principal**

From September, 2023 until present date

Harmoniously unite phenomenological knowledge with data science to develop new products and/or new concepts, exploring multiple functionalities.

**JMarlet Consulting and Training**

**Principal**

From October, 2016 until September, 2023.

Supply expertise on polymeric materials and related composites developments. Adding value to customers by helping them to pass over the death valley on technological projects from low to high TRL (technology readiness level).

**CDEC - Composite Design Excellence Center****Head of Materials and Processes**

From September, 2018 until January, 2021.

- Responsible for the development of new composite materials and related manufacturing processes for composites structures.

**IPT - Institute of Technological Research of the State of São Paulo****Senior Researcher at LEL - Lightweight Structures Laboratory**

From October, 2016 until June, 2017.

- Work together with companies in R&D projects related to composite structures, as well as hybrid structures.

**EMBRAER S.A.**

From May, 1999 until October, 2016 in the following activities:

**Technical Fellow - R&D Composites**

- Maintain a vision for new materials and processes. Explore potentialities.
- Development of joint research lines with Academia and stakeholders.
- Support the development of a brazilian technological infrastructure network for composite materials. Application of research results in real world scenario.

**Team leader for R&D Composite Materials and Process Development**

- Development of new composite materials and related manufacturing processes, applied to primary structures of aircrafts.
- Establishment of robustness criteria to be applied at composite manufacturing processes.
- Definition of criteria considered acceptable by certification authorities for R&D developments.
- Prospective studies of new materials and processes.

**Materials and Process Development Engineer**

- Embraer ERJ 170 family: development of rubber seals and related applications. Development of thermoplastic components.
- Participation at the Composite Team for definition of composite materials and processes to be used in aircraft structural components.
- Prospection and development of new materials and processes.

**CTA – Centro Técnico Aeroespacial.****Invited researcher at IAE/CTA**

From January, 1998 until December, 1998.

- Development of advanced thermoplastic composites and manufacturing process for aeronautical applications, as a FAPESP post-doc researcher

**RHODIA S.A.**

From January, 1980 until February, 1997 in the following activities:

**Materials and Process Development Engineer**

- Filter Tow Activity: optimization of industrial installation; development of the dry spinning process for cellulose acetate filaments.

- Engineering Plastics Activity: formulation of polyamides and polyesters as engineering plastics for the automobile, electrical, electronic and leisure markets; scale-up from laboratory and pilot to the industrial installation.
  - Acrylic Fibers Activity: study and development of the polymerization and copolymerization process of acrylonitrile; development of new polymers (PAN) suitable for textile fibers and carbon fibers; wet spinning of new acrylic fibers.
- **FORMATION**
    - 1979** - Chemical Engineer at UNICAMP.
    - 1989** - MSc in Chemical Engineering at USP (Viscous flow characterization of solutions of cellulose acetate in acetone).
    - 1994** - PhD in Chemical Engineering at UNICAMP (Industrial polymerization and copolymerization process of acrylonitrile – experimental approach and statistical modeling).
    - 1998** - Post-Doctorate in production and characterization of advanced thermoplastic composites for structural applications at IAE / CTA.
    - 2008** – PMP (Project Management Professional) from PMI (Project Management Institute)
    - 2018** – Specialization on project management at SENAC a recognized Registered Education Provider (R.E.P.) from PMI.
    - 2022** – Computing Engineer at UNIVESP.
    - 2022** – Specialization in Data Science from IBM and Johns Hopkins University, both supported at Coursera platform.
  - **INTERNATIONAL EXPERIENCE**
    - France** - Rhône-Poulenc, CLYPT, from January until March, 1987 and in June, 1988. Formulation of Engineering Plastics.
  - **LANGUAGES**
    - Potuguese** – Native proficiency
    - English, Spanish and French** – Professional working proficiency
    - German** – Limited working proficiency
  - **PATENTS**
    - Engineering Plastics** - 1.
    - Acrylic Fibers** - 2.
    - Thermoplastic Composites** - 2

Barueri, Sept. 23<sup>rd</sup>, 2023

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**José Maria Fernandes Marlet, Dr. Eng., PMP**