



LUÃ GUEDES COSTA

☎ 55 21 99534-0527 ✉ guedes@mecanica.coppe.ufrj.br
👤 31, Single, Brazilian
📍 Rua Coronel Tamarindo, 8, bl. 3, 702, Niterói, RJ, Brazil



▲ More

PROFILE 📄

I am Ph.D. in mechanical engineering, specialized in nonlinear mechanics phenomena, including energy harvesting, smart materials and structures, nonlinear dynamics, multistability, and chaos. My expertise is complemented by a strong background in HPC, allowing me to tackle complex problems with precision and efficiency.

EXPERIENCE 🏢

- Postdoctoral Researcher** Jul 2024 - Present
Center for Nonlinear Mechanics, Universidade Federal do Rio de Janeiro, Brazil
Activities: Design and development of new nonlinear smart systems and structures.
- Peer Reviewer** Aug 2020 - Present
→ Journal of Vibration and Control - SAGE Journals
→ International Journal of Mechanical Sciences - Elsevier
→ Journal of Computation and Nonlinear Dynamics - ASME
→ Nonlinear Dynamics - Springer Nature
Activities: Peer review of scientific papers.
- Founder and Manager** Mar 2020 - 2022
Tupan Acessibilidade, Brazil
Activities: Management and development of accessibility technology.
- Undergraduate Research Program** Jun 2017 - Dec 2017
Centro Federal de Educação Tecnológica Celso Suckow da Fonseca (CEFET/RJ).
Activities: Dynamical analysis of energy harvesting systems using finite element method.

EDUCATION 🎓

- PhD in Mechanical Engineering** 2020 - 2024
Universidade Federal do Rio de Janeiro (COPPE/UFRJ), Brazil.

AWARDS 🏆

- Winner of Invent for the Planet 2019** Apr 2019
Texas, US.
International competition of technology and innovation.
Winning Project: Team Tupã
- Best Student Paper Award** Feb 2023
XIX International Symposium on Dynamic Problems in Mechanics (DINAME 2023).

ADDITIONAL TRAINING 🌟

- Undergraduate Exchange Program in Mechanical Engineering** 2015 - 2016
Technological University Dublin (Former Dublin Institute of Technology), Ireland.
- Oratory** 2017
Rogéria Guida Oratory Course, Rio de Janeiro, Brazil.
- School of Advanced Sciences on Nonlinear Dynamics** Aug 2019
Universidade de São Paulo, São Paulo, Brazil.