Francisco Condessa Peixoto

Lisbon fcpex2001@gmail.com +351 911889818 Francisco Condessa Peixoto

Summary

Graduate student in Materials Engineering from NOVA University, Lisbon, School of Science and Technology. Degree completed with several projects ranging from liquid crystals to solar cells, wood and bio-engineered tissues, and with a keen interest in the **Energy Sector** and **Health and Biomedical Engineering**.

Language Proficiencies

- **Portuguese** - Fluent (Native) ; **English** - Advanced ; **German** - Basic

Education

MS **NOVA University, Lisbon, School of Science and Technology**, Materials Engineering — Sept 2023 – Dec 2025

- GPA: 16/20
- **Coursework:** Biomaterials, Energy Transportation, Energy Storage, Energy Conversion, Photonics, Surface Engineering (Corrosion)

BS **NOVA University, Lisbon, School of Science and Technology**, Materials Engineering — Sept 2020 – June 2023

- GPA: 14/20
- **Coursework:** Metallurgy, Glass and Ceramics, Composites, Semiconductors, Rheology, Polymers

Extracurricular Activities

- **Banco Alimentar - Volunteer**
- **Director of Public Relations** in NuMAT (Student Union)
- **Active Gym Goer** and Martial Arts Enthusiast (Karate Red Belt)
- Curious and **Avid Reader** (Invited to the University's Book Club)

Projects

Advanced 3D Printing of Hydrogels: Polyionic Liquids and Biopolymers for Tissue Engineering — 2025

- Developed a composite bioink system through 3D printing combining methacrylated gelatin and mucin with a polyionic liquid (PIL) to produce an electrically conductive biomaterial for tissues that require that same stimulus.
- Tools Used: FTIR, NMR, 3D Printer, SEM, Potentiostat

Wood-Templated Triboelectric Devices and Solar Cell Simulation — 2023

- Developed a fully carbon-based triboelectric device made up of carbon electrodes and a balsa wood template with several chemical treatments and a solar cell simulation
- Tools Used: SEM, EDS, FTIR, Contact Angle, DRX, Lumerical Software

Technologies

Languages: Python, SQL, MATLAB, Microsoft VBA

Technologies: Lumerical Software, CES Edupack, Microsoft Office