Leonardo Berlim Schneider

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Education

POSTDOCTORAL IN PHYSICS| 2016 - 2018 | USP

Title: Study of Photophysical Properties of Flavonoids Extracted from *Syngonanthus nitens*, the Golden Grass.

PH.D. IN PHYSICS | 2010 - 2014 | UFPR

Title: Synthetic and Natural Fluorophores for Applications in Diagnostics.

M.SC IN PHYSICS | 2008 - 2010 | UFPR

Title: Development of a microfluidic chip for diagnostics in Public Health: Proof of Concept.

B.SC IN PHYSICS | 2003 - 2008 | UFPR

Experience

DEVELOPER | UNIMAL - JP | 04/2022 – NOW

Development of a website for Kyoto's eyewear brand named "Hello-o My Name Is…" (https://helloomynameis.com/), using stacks as Vue 3, Typescript, HTML, CSS, Git/GitHub, Firebase, Google Cloud, and Adobe XD.

JUNIOR DEVELOPER | TARVOS | 08/2020 – NOW

Implementation of the automated pest monitoring system in crops, programming in several languages, such as Python 3, JavaScript, TypeScript, Node.js, NestJS, and HTML/CSS.

IT SUPPORT - CLARIZEN | IEA SOLUÇÕES EDUCACIONAIS | 02/2020 - 05/2020

IT support, configuration, and customization of project management software Clarizen, service of answering requests for specific reports and dashboards and identification of user usability needs.

SOFTWARE IMPLEMENTATION - CLARIZEN | IEA SOLUÇÕES EDUCACIONAIS | 02/2019 - 07/2019

Implementation, configuration, and customization of project management software Clarizen.

AUTHORSHIP OF SCIENCE TEACHING MATERIAL – 9TH GRADE - HIGH SCHOOL | SOMOS EDUCAÇÃO | 05/2018 - 09/2018

Authorship of teaching material - MAXI - 9th Grade - High School – Book 4 – Science.

TEACHING MATERIAL EDITOR OF PHYSICS - MODULAR - HIGH SCHOOL | IEA SOLUÇÕES EDUCACIONAIS | 05/2018 - 07/2018

Editor of modular high school teaching material for the Conquista Solução Educacional - Static and Hydrostatic - Physics teaching system, Editora Positivo.

TEACHING MATERIAL EDITOR OF MATHEMATICS - SCHOOLS 6, 7, 8 AND 9 | IEA SOLUÇÕES EDUCACIONAIS | 02/2018 - 07/2018

Editor of teaching material – Sistema Maxi de Ensino

- Both semesters - 6 (Middle School), 7 and 8
- Only second semester - 9 (High School)

DIAGNOSTIC SYSTEM DEVELOPMENT | IBMP | 2013 - 2015

Development of point-of-care diagnostic systems, which are performed at point-of-need locations.

WESTERN ROCK "MAD BUNCH" BAND – VIDEO CLIP RECORDING | 2014

Video clip recording of the western rock "Mad Bunch" band.

WESTERN ROCK "MAD BUNCH" BAND - CD RECORDING | 2013

Production, recording, and audio mixing of the first CD of the western rock "Mad Bunch" band.

DEVELOPMENT OF MICROFLUIDIC CHIP | IBMP | 2010 - 2013

Development of microfluidic chip for immunoassay multitest.

Summary of Qualifications and Competences

- Over 6 years of experience in industrial and technological development.
- 7 scientific articles published and 3 patents.
- Entrepreneurial spirit and excellent communication skills with co-workers and customers.
- Experience with work in multidisciplinary groups.
- Experience on student guidance.
- Professional communication skills include pre-fluency in English.

Knowledge and Skills

LABORATORY TECHNIQUES

- Basic Electronics, basic Mechanics, and instrumentation
- Development of nanoparticles by laser ablation and physical characterization (DLS (Dynamic Light Scattering))
- X-Ray Diffraction
- FTIR (Fourier-transform infrared spectroscopy)
- Photoluminescence techniques (UV/Visible spectroscopy, Time-resolved Fluorescence Spectroscopy, and FLIM (Fluorescence Lifetime Imaging) and FCS (Fluorescence Correlation Spectroscopy))

- SEM (Scanning Electron Microscopy)
- AFM (Atomic Force Microscopy)
- Production of Superhydrophobic surfaces by deposition techniques such as electrospray / electrospinning and characterization
- Plasma Etching
- Laser ablation prototyping
- Raman and SERS Spectroscopy

PROJECT MANAGEMENT

- Fabrication
- Following Specifications
- Operations
- Quality Assurance
- Quality Control
- Scheduling and Task Management

COMPUTACIONAL

- Office 365 (Word, Excel, PowerPoint)
- CorelDraw
- Origin
- MATLAB
- LabVIEW
- Gaussian, GAMESS, and HyperChem
- Clarizen
- SQL (Basic)
- Python (Intermediate), JavaScript (Advanced), TypeScript (Advanced), Node.js (Advanced), HTML/CSS (Advanced)
- GitHub (Advanced)
- Git (Advanced)

LANGUAGES

	Understanding	**Speaking**	**Writing**	**Reading**
Portuguese	Advanced	Advanced	Advanced	Advanced
English	Advanced	intermediate	Advanced	Advanced
German	Basic	Basic	Basic	Basic