# Leonardo Berlim Schneider

Rua Valentin Harkot, 397 – Curitiba | +55 (41) 99604-6692 | lnrdschneider@gmail.com

## Education

### POSTDOCTORAL IN PHYSICS| 2016 - 2018 | USP

Title: Studied 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

### JUNIOR DEVELOPER | TARVOS | 08/2020 – NOW

Implementation of the automated pest monitoring system in crops, programming in several languages, such as Python 3, Java Script, 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.

### 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) and 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

### COMPUTATIONAL

- Office 365 (Word, Excel, PowerPoint)
- CorelDraw
- Origin
- MATLAB
- LabVIEW
- Gaussian, GAMESS, and HyperChem
- Clarizen
- SQL (Basic)
- Python 3 (Intermediate)
- GitHub (Intermediate)

### LANGUAGES

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