Albert Redo-Sanchez, PhD

Scholar	http://scholar.google.com/citations?user=hLNrZikAAAAJ	**Email**	albert@redo-sanchez.net
Linked-In	http://www.linkedin.com/in/redosanchez	**Phone**	+1 845.390.8689
TEDx talk	Unlimited vision, https://youtu.be/Nu-IoNHGxF8		+34 659.201.086
Harvard	Sightlines: obSERVE, https://youtu.be/AUwTFaU0sqU		
Website	https://redo-sanchez.net		

Skills

Software	Python, Ruby, C/C++, LabView
AI	TensorFlow, pyTorch
Processing	Matlab/Octave, Mathematica, ImageJ
Design	Zemax, SolidWorks

Education

05/2008   **MBA, The Lally School of Management at Rensselaer, United States**

07/2004   **PhD in Applied Physics, Universitat de Barcelona, Spain**
Dissertation: *New processes and devices for the automobile industry*

07/2001   **Master in Advanced, Universitat de Barcelona, Spain**
Dissertation: *Automobile production forecast using Monte-Carlo and Neural Networks techniques*

07/1999   **Bachelors in Physics, Universitat de Barcelona, Spain**

Experience

12/2019-
01/2020
Lynntech Inc., College Station, TX, United States
Scientist II

Research in machine learning for non-destructive testing and military applications
Proposal ideation, preparation, and submission for Federal Government funding institutions

04/2016-
11/2019
das-Nano S.L., Pamplona, Spain
Terahertz Technology Director

Developed a system for multi-layer thickness and adherence characterization of composite structures for the renewable energy and aeronautic industries
Developed a system for 2D materials characterization for the semiconductor and materials research sectors
Developed new authentication features for the high-security printing industry

09/2014 -
03/2016
MIT Media Lab, Cambridge, MA, United States
Research Scientist

Researched and developed the reading through a closed book proof of concept
Researched and developed new algorithms for analyzing time-domain volumetric data
Designed compact optical devices for portable eye diagnosis applications
Wrote research grants and mentored PhD students

01/2014 - 01/2020	**Excelsior College, Albany, NY, United States**
	On-line Instructor
	Instructed science and technology courses on-line

11/2011 - 05/2014	**Zomega Terahertz Corporation, East Greenbush, NY, United States**
	Director of Business Development
	Developed non-destructive testing applications with terahertz technology
	Developed prototypes to validate proof of concept applications
	Collected and analyzed customers' needs and requirements
	Managed relationships with distributors worldwide

07/2010 - 11/2011	**Rensselaer Polytechnic Institute, Troy, NY, United States**
	Research Assistant Professor
	Invented a method to analyze terahertz spectra without the need of a reference
	Developed an ultrafast scanner for fast terahertz imaging
	Researched non-destructive inspection techniques using terahertz waves

11/2009 - 07/2010	**Universitat de Barcelona, Barcelona, Spain**
	Postdoctoral Research Associate
	Established a laboratory for terahertz technology research

09/2008 - 10/2009	**Leitat Technological Center, Terrassa, Spain**
	Project Manager
	Managed projects in the nano-technology, materials, manufacturing, and transportation areas

09/2004 - 09/2008	**Rensselaer Polytechnic Institute, Troy, NY, United States**
	Research Assistant Professor
	Developed a portable system for the non-destructive inspection of the Space Shuttle insulation
	Researched non-destructive testing applications with terahertz technology
	Researched statistical and machine-learning algorithms for spectral analysis
	Wrote research proposals and supervised PhD students

12/2001 - 07/2004	**ASM-Dimatec Ingenieria S.A., Reus, Spain**
	R&D and IT Manager
	Developed a microwave-based device for the quality control of adhesives
	Developed a robotic correction positioning system for the windshield insertion
	Co-project leader in the EU project IDA-STEP

Awards

2009	iWeekend Barcelona winner, Spain
2008	Photonics Technology Access Program, United States
2007	Faculty Mobile Computing, Rensselaer Polytechnic Institute, United States
2000	Fellowship of the Ministry of Education, Spain

Certifications

2008   Leadership Development Program, Center for Creative Leadership, Hartford, CT, United States

Languages

English (proficient), Spanish (native), Catalan (native)

Miscellaneous

11/2011 -   **elguisante.com**
11/2014   *Co-founder and editor*

Online magazine dedicated to the Spanish-speaking web design and developer community

10/2009 -   **CreCube, Barcelona, Spain**
12/2010   *Co-founder and CEO*

Start-up dedicated to develop business intelligence applications