

Curriculum Vitae

PERSONAL INFORMATION

- Name: Pedro Alexandre Marques Anacleto
- Birth: 01/08/85, Torres Vedras, Portugal
- Email: pedro.anacleto@inl.int

ACADEMIC DEGREES

- **2016** PhD in Biomedical Engineering at Minho University (Braga, Portugal)
- **2008** MSc in Biomedical Engineering at New University of Lisbon (Portugal)
- **2006** BSc in Biomedical Engineering at New University of Lisbon (Portugal)

SCIENTIFIC ACTIVITIES

- **July 2016 – March 2017** - Researcher at CMEMS Center (Guimarães, Portugal) working on the development of radiofrequency microelectromechanical systems (RF MEMS); and Titanium-nitride microelectrode cuff arrays for acute use in sub mm nerves
- **January 2010 – July 2016** - Ph.D. Student at Minho University (Braga, Portugal), working on the development and characterization of electromagnetic responsive micro fabricated 3D antenna structures to wirelessly power implantable medical devices.
- **May 2011 – August 2014** - Invited Researcher at Johns Hopkins University (Baltimore MD, USA) working on microfabrication of self-folding 3D micro antennas for ultra-small implantable medical devices.
- **January 2009 – December 2009** - Biomedical Engineer at Instituto Gulbenkian de Ciência (Oeiras, Portugal).

PUBLICATIONS

- **Ph.D. Thesis** - "Self-Folding 3D Micro Antennas for Implantable Medical Devices", Minho University, July 2016
- **MSc Thesis** - "Construction and characterization of a rotatory collector for PCL aligned nanofibers fabrication", New University of Lisbon – Faculdade de Ciências e Tecnologia, December 2008.

i) Papers in international scientific periodicals with referees

- **P. Anacleto**, E. Gulpepe, S. Gomes, Paulo M. Mendes & David H. Gracias, Self-folding microcube antennas for wireless power transfer in dispersive media, *Technology* 04, 120, 2016. DOI: 10.1142/S2339547816500047
- M. El Ghabzouri, A. E. Salhi, **P. Anacleto**, and P. Mendes, "Enhanced low profile, dual-band antennas via novel electromagnetic band gap structure" *Progress In Electromagnetics Research C*, Vol. 71, 79–89, 2017. DOI: 10.2528/PIERC16110904

ii) Papers in Conference Proceedings

- **P. Anacleto**, E. Gultepe, D. Gracias, J. H. Correia, P. M. Mendes. "Antenna operating frequency selection for energy harvesting on nano biomedical devices". 41st European Microwave Conference (EuMC), 2011.
- **P. Anacleto**, P. M. Mendes, E. Gultepe, D. H. Gracias. "3D small antenna for energy harvesting applications on implantable micro-devices". Loughborough Antennas and Propagation Conference (LAPC), 2012.
- **P. Anacleto**, E. Gultepe, D. H. Gracias P. M. Mendes. "Energy Harvesting For Self-Folding Micro Devices". International Conference on Biomedical Electronics and Devices Proc. Biodevices, 2012.
- **P. Anacleto**, P. M. Mendes, E. Gultepe, D. H. Gracias. "Micro antennas for implantable medical devices". IEEE 3rd Portuguese Meeting in Bioengineering (ENBENG), 2013.
- S. Gomes, J. Fernandes, **P. Anacleto**, P. M. Mendes, E. Gultepe, D. Gracias. "Ultra-small energy harvesting microsystem for biomedical applications". 44th European Microwave Conference (EuMC), 2014.
- F. Rodrigues, S. Gomes, **P. Anacleto**, J. Fernandes, P.M. Mendes, "RF CMOS wireless implantable microsystem for sacral roots stimulation with on-chip antenna and far-field wireless powering", European Microwave Conference (EuMC), 2015.
- H. Dinis, **P. Anacleto**, J. Fernandes, P.M. Mendes, "Characterization of chip-size electrically-small antennas for smart wireless biomedical devices", 9th European Conference on Antennas and Propagation (EuCAP), 2015.
- M. Zamith, J. Magalhaes, **P. Anacleto**, P.M. Mendes. "60 GHz on-chip antenna array with efficiency improvement using 3D microfabrication technology", 9th European Conference on Antennas and Propagation (EuCAP), 2015.

PRIZES AND AWARDS

- Best Poster Winner: "3D Self-Folding Micro Antennas". International Symposium "Microsystems Technology: Fulfilling the Promise. National Institute of Standards and Technology (NIST), Gaithersburg, MD. May 2013

PATENTS

- **P. Anacleto**, P. M. Mendes, E. Gultepe, D. H. Gracias "*THREE DIMENSIONAL SELF-FOLDED MICROANTENNA*", United States Patent Application: 20140320378