Lucio Cinà

Curriculum Vitae

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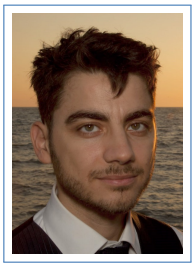

Education

2009–2012 **PhD in Learning and Sensing Systems Engineering**, *University of Rome "Tor Vergata"*, Rome, Italy.
Monitoring and control systems for hybrid solar cells (FINAL EXAMINATION TO BE SUPPORTED)

Sept.–Nov. 2009 **Scholarship**, *University of Rome "Tor Vergata"*, Rome, Italy.
Realization of aging control systems for solar cells.

2009 **MSc in Electronic Engineering**, *University of Rome "Tor Vergata"*, Rome, Italy.
Realization of a measuring apparatus for the acquisition of external quantum efficiency and spatial maps spectra for hybrid solar cells. Score of 110/110 cum laude.

2006 **Bachelor in Electronic Engineering**, *University of Rome "Tor Vergata"*, Rome, Italy.
Optical characterization of nanocomposites for sensor applications. Score of 110/110 cum laude.

2002 **Baccalaureate**, *Second Level College of Science "*G. Marconi*"*, Grosseto, Italy.

Project Works

- Global Maximum Power Point Tracker for Partially Shaded Photovoltaic Modules[1].
- Time resolved temperature profiles of high power HEMTs by photocurrent spectral analysis[2].Activity held within the "Lifepulse" project promoted by Finmeccanica. Companies and academic institutions that participated are: Selex Galileo (UK-Italy), Thales Alenia Space, Selex Sistemi Integrati and Bristol University (Department of Physics). The project was focused on thermal modelling, temperature measurement and reliability estimation of high-power RF semiconductors, particularly when operating in pulsed conditions.

- Ibrid Solar Cells Quantum Efficiency and IV curve characterization systems. Work commissioned by DYERS s.r.l. spin off for Sensor Laboratory (CNR-Brescia) and Department of Chemistry (University of Ferrara).
- Optical spectral resolved noise analysis of Solar Cells.
- Quantum Efficiency Spatial Maps of Solar Cells.

Teachings

March-June 2012 — **LabVIEW™ Core 1 & 2**.
Courses for the Associate Developer Certification (CLAD)

March 2011 — **LabVIEW™& Fundamentals of Electronics**, *Master Course in Photovoltaic Engineering*.
Eighteen hours held within the course "Electronics and Optoelectronics for Photovoltaic"

September 2011 — **LabVIEW™& Fundamentals of Electronics**, *School of Specialization in Telecommunications (SSST)*, Institute of Communications and Information Technology (ISCOM)-Rome..
Eigth hours held within the “Laboratory of Optical Communications” course.

March 2010 — **LabVIEW™& Fundamentals of Electronics**, *Master Course in Photovoltaic Engineering*.
Seventeen hours held within the course "Electronics and Optoelectronics for Photovoltaic"

Conferences & International Schools

October 2012 — **ESREF**, Cagliari, Italy.
23rd European Symposium on Reliability of Electron Devices, Failure Physics and Analysis.

November 2010 — **Advanced Course**, *Polytechnic University of Milan*, 20 hours.
”Electrical Characterisation of nanoscale samples & biochemical interfaces: methods and electronic instrumentation”

June-July 2010 — **School**, Maratea, Italy.
"The new energy sources and energy efficiency in engineering".

September 2010 — **ISOPHOS**, Ventotene, Italy.
International School of Organic Photovoltaic

Languages

Italian — **Native**

English — **Good** — *PET certification (University of Cambridge)*

Computer Skills

OS — Windows, Linux

Programming — C/C++, Assembly

Scientific	LabVIEW™(Certified Associate Developer), MATLAB®, Simulink®, OrCAD, Multisim, Origin©	Office productivity	Microsoft Word-Power Point-Visio, Lyx, OpenOffice, Adobe Photoshop

Interests

Ecology Member of a working group (*Ricerchio Team*) that produced a study on a possible model for the management of municipal solid waste applicable to the Grosseto province.

Photography

Drums

References

S. Bifaretti, V. Iacovone, L. Cina, and E. Buffone. Global mppt method for partially shaded photovoltaic modules. In *Energy Conversion Congress and Exposition (ECCE), 2012 IEEE*, pages 4768–4775. IEEE, 2012.

L. Cinà, A. Di Carlo, and A. Reale. Time resolved temperature profiles of high power hemts by photocurrent spectral analysis. *Microelectronics Reliability*, 2012.

S. Mastroianni, T.M. Brown, A. Lanuti, L. Cinà, A. Lembo, M. Liberatore, A. Reale, and A. Di Carlo. Reverse bias degradation in shadowed devices in tio2 dye-sensitized solar cell modules. *MRS Proceedings*, 1442(1), 2012.