Curriculum Vitae

PERSONAL INFORMATION	Elisabetta Moisello
	Date of birth: June 16 th , 1993 Nationality: Italian E-mail address: elisabetta.moisello@unipv.it
EXPERIENCE	
DECEMBER 2020-PRESENT	Postdoctoral Research Fellow
	University of Pavia
	 Research topics: design of interface circuits for contactless integrated temperature sensors, design of temperature-to-digital converters, design of high efficiency switching dc-dc converters, design of resonant dc-dc converters for wireless charging applications
FEBRUARY 2020-PRESENT	Contract Professor
	University of Pavia
	 Module of Electronics I - 2 CFU (Elettronica I), in the frame of the Bachelor's Degree on Electronic and Computer Engineering
EDUCATION AND TRAINING	
OCTOBER 2017-DECEMBER 2020	Ph.D. in Microelectronics (XXXIII Cycle)
	University of Pavia
	 Thesis Title: "Integrated interface circuits for MEMS contact-less temperature sensors
OCTOBER 2015-OCTOBER 2017	Master's Degree in Electronic Engineering
	University of Pavia
	 Thesis Title: "Design of a chopper stabilized readout circuit for integrated thermopiles"
OCTOBER 2012-OCTOBER 2015	Bachelor's Degree in Electronic Engineering and Computer Science $107/110$
	University of Pavia
	 Thesis Title: "Automation of voltage and current measurements for characterizing of a chip for electro-optical transmissions"
PERSONAL SKILLS	
LANGUAGES	Italian, English
TEACHING ACTIVITY	 Module of Electronics I - 2 CFU (Elettronica I), in the frame of the Bachelor's Degree on Electronic and Computer Engineering (A.A. 2020/2021 – 2021/2022) Experience as tutor: 90 hours for the "Elettronica I" course at University of Pavia (exercises at the blackboard, assistance during laboratory activities, assistance during exams); 30 hours for the "Circuiti Elettrici Lineari" course at University of Pavia (exercises at the blackboard, assistance during exams) Bachelor's thesis co-supervisor for Alessandro Portesan, "Development of a data acquisition program for the characterization of a sensor for presence detection"

- Samuele Fusetto, "Design of a high efficiency inverting buck-boost converter for OLED displays"
- Bachelor's thesis supervisor for
- ^a Luca Manfredi, "Experimental characterization of thermopile-based integrated sensors"

PUBLICATIONS	 E. Moisello, M. Vaiana, M. E. Castagna, G. Bruno, E. Bonizzoni and P. Malcovati, "A Chopper Interface Circuit for Thermopile-Based Thermal Sensors", International Symposium on Circuits and Systems (ISCAS 2019), 26-29 May 2019, Sapporo, Japan, doi: 10.1109/ISCAS.2019.8702506. E. Moisello, M. Vaiana, M. E. Castagna, G. Bruno, P. Malcovati and E. Bonizzoni, "An Integrated Micromachined Thermopile Sensor with a Chopper Interface Circuit for Contact-less Temperature Measurements", <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i>, vol. 66, no. 9, Sep. 2019, doi: 10.1109/TCSI.2019.2928717. E. Moisello, M. Vaiana, M. E. Castagna, G. Bruno, P. Malcovati and E. Bonizzoni, "An Integrated Thermopile-Based Sensor with a Chopper-Stabilized Interface Circuit for Presence Detection", <i>Sensors</i>, vol. 19, no. 18, Sep. 2019, doi: 10.3390/s19183999. E. Moisello, P. Malcovati, E. Bonizzoni. "Thermal Sensors for Contactless Temperature Measurements, Occupancy Detection, and Automatic Operation of Appliances during the COVID-19 Pandemic: A Review", <i>Micromachines</i>, vol. 12, no. 148, Feb. 2021, doi: 10.3390/mi12020148. E. Moisello, M. Vaiana, M. E. Castagna, G. Bruno, I. Brouk, T. Blank, S. Bar-Lev, Y. Nemirovsky, P. Malcovati and E. Bonizzoni. "Study of a Voltage-Mode Readout Configuration for Micromachined CMOS Transistors for Uncooled IR Sensing", Latin American Symposium on Circuits and Systems (LASCAS 2021), Feb. 2021, Virtual Format, doi: 10.1109/LASCAS51355.2021.9459117. E. Moisello, M. Vaiana, M. E. Castagna, G. Bruno, I. Brouk, Y. Nemirovsky, P. Malcovati and E. Bonizzoni "A MEMS-CMOS Microsystem for Contact-Less Temperature Measurements," in <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i>, doi: 10.1109/TCSI.2021.3091839. S. Fusetto, E. Moisello, F. Cannillo, P. Malcovati and E. Bonizzoni. "A Power Switch Size Optimization Strategy for Multi-Switch DC-DC Converters", International Conference on Electronics, Circuits, and Systems (ICECS 2
MEMBERSHIPS AND ACTIVITY IN THE INTERNATIONAL SCIENTIFIC COMMUNITY	 Member of IEEE - Institute of Electrical and Electronics Engineers Member of CASS - Circuits and Systems Society Young Professional representative for the CASS-North Italy Chapter Member of the IEEE Italy Section Young Professional Affinity Group Secretary of the IEEE Italy Section Young Professional Affinity Group Experience as Guest Editor for "IEEE Transactions on Circuits and Systems II – Express Briefs" Experience as Reviewer for "IEEE Transactions on Circuits and Systems I – Regular Papers", "IEEE Transactions on Electron Devices", "IEEE Journal of Solid-State Circuits", "MDPI Applied Sciences", ISCAS Conference, ICECS Conference Organizer of the Special Session on "Circuits and systems for non-contact sensing applications" at ISCAS 2022 Member of the Organizing Committee for PRIME 2022 Conference – Finance Chair Special Issue Editor (Organizer and Guest Editor) for "MDPI Micromachines" – "Special Issue: Microsensors and Microsystems for the Human Body"
RESEARCH EXPERIENCE	 Design of integrated interface circuits for MEMS contact-less sensors (p/n polysilicon thermopiles, TMOS) Design of integrated temperature-to-digital converter systems Design of high efficiency inverting buck-boost converters Design of resonant converters for wireless charging applications