

PERSONAL INFORMATION

Name CAIROLI PIETRO
 Address 117 S HARDEN ST. APT. 4
 29205 COLUMBIA, SC - USA
 Mobile phone (803) 3972729
 E-mail pietro.cairol@gmail.com
 Nationality Italian

EDUCATION AND TRAINING

2010 - now University of South Carolina, Columbia, SC

PhD candidate in Electrical Engineering – Power Electronics, Power Systems, Digital Control for Electronic Power Converter, Fault Protection for Power Distribution Systems
 GPA 4.0

2007 - May 3 2010 Politecnico di Milano, Milano, Italy - Electrical engineering

- Principal subjects Master's courses in electrical engineering: Electrical transport, Electrical Systems, Power plants, Energy dispatching, Circuit Breakers, Computational methods for Electromagnetism
 Extracurricular exams: Innovation and projects management, Services and nets Economy
- Title of qualification awarded Master of Engineering's Degree in Electrical Engineering – Mark: 110/110 and honours
 GPA 4.0

2009 - 2010 University of South Carolina – College of Engineering and Computing – Columbia, South Carolina

- Principal subjects / skills covered Research for Master's degree Thesis – DC distribution systems
 Paper presentation: "Ground Fault Protection for DC Bus Using Controlled Power Sequencing"

2007 - 2008 Technical University (TUM), Munich, Germany - Erasmus student exchange

- Principal subjects Master's Degree courses in electrical engineering: Electrical transport, Electricity transmission, High voltage, Electrical measures, Electrical machines, Electrical Drives, Power plants.

2004 – September 25 2007 Politecnico di Milano – Electrical engineering – Bachelor's Degree

- Principal subjects Mathematical analysis, electrical engineering, electrical systems and power plants design, and other courses of the course of study in electrical engineering
- Title of qualification awarded Bachelor's Degree in Electrical Engineering – Mark: 110/110
 GPA 4.0

WORK EXPERIENCE

2010 - now Research Assistant at University of South Carolina, Columbia, SC

- Type of business or sector Electrical Engineering Research for ESRDC Consortium, ONR
- Occupation Research Assistant in the field of Power Electronics, Power Systems, and Power Distribution System Fault Protection
- Main activities and responsibility
 - ✓ Modeling, simulation and experimental validation of power distribution system fault protection
 - ✓ Power electronic converter issues analysis
 - ✓ Digital control implementation for electronic power converters on TI DSPs

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| <p>2010 - now</p> <ul style="list-style-type: none"> • Type of business or sector • Occupation • Main activities and responsibility | <p>Teaching Assistant at University of South Carolina, Columbia, SC
 University Education for undergraduates
 Teaching Assistant of ELCT301 Electronics Laboratory</p> <ul style="list-style-type: none"> ✓ Lecturing, theoretical and practical assistance to students in the lab session ✓ Grading, course structure organizing, components and equipment management |
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| <p>2010</p> <ul style="list-style-type: none"> • Address of employer • Type of business or sector • Main activities and responsibility | <p>Calzoni S.r.l. – Kollmorgen - Danaher
 Via Solari 19, 20144 Milan, Italy
 Automation, Marine and Military Illumination System Design
 Electrically Actuated Submarine Control Surfaces – Electrical and Mechanical System
 Modellization in Virtual Test Bed (VTB)</p> |
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LANGUAGES

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| <ul style="list-style-type: none"> • Mother tongue • Other languages | <p>Italian
 English: very good - TOEFL score 93/120
 German: good
 French: basic</p> |
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PUBLICATIONS

- 2011 - P. Cairoli, R. A. Dougal, I. Kondratiev, "Controlled Power Sequencing for Fault Protection in DC Nanogrids", IEEE 2011 International Conference on Clean Electrical Power ICCEP, June 2011, Ischia, Italy
- 2011 - J. Tucker, D. Martin, P. Cairoli, R. Dougal, E. Santi, "Fault Protection and Ride-Through Scheme for MVDC Power Distribution System Utilizing a Supervisory Controller", IEEE ESTS, April 2011, Alexandria, VA
- 2010 – Pietro Cairoli, Ugo Ghisla, Igor Kondratiev, Roger Dougal, Power Sequencing Approach to Fault Isolation in DC Systems: Influence of System Parameters – 7 pages – Conference Paper – ECCE 2010 – Atlanta, GA – September 12-16, pp. 72-78
- 2010 - Pietro Cairoli, Roger Dougal, Igor Kondratiev, Ground Fault Protection for DC Bus Using Controlled Power Sequencing - 4 pages - Proceedings Paper - SoutheastCon 2010 - Charlotte, North Carolina - USA

ADDITIONAL INFORMATION

- ✓ I've good organization skills concerning both the structural aspects and the management of interpersonal relations. I manage to work using to advantage both the available human and material resources at best;
- ✓ I like playing and listening to music, I like the cinema; I'm fond of sports in general;
- ✓ I'm interested in new technologies, in energetic, construction and environmental innovations and in everything happening in the society and in the world.