

ANDREA SUCRE GONZÁLEZ

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Born in Caracas 21 de November de 1988

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EDUCATION

PhD in engineering • Universidad Simón Bolívar, Sartenejas, Venezuela • September 2015-Present

Magister in engineering (with honors) • Universidad Simón Bolívar, Sartenejas, Venezuela • April 2013-November 2015

Academic score: 5/5. Efficiency: 1. Promotion position: 1/106. Degree position: 1/4.

Electronic engineering (Cum Laude) • Universidad Simón Bolívar, Sartenejas, Venezuela • September 2007-June 2013

Academic score: 4.4485/5. Promotion position: 7 of 197. Degree position: 4 of 19. Efficiency: 1.

Exchange program of Simón Bolívar University • Karlsruher Intitut für Technologie, Karlsruhe, Alemania • September 2011-August 2012

One year exchange program.

Highschool in science • U. E. Merici Academy, Caracas, Venezuela • 2002-2007

Graduated with honors: *Highest promotion average* and *SERVIAM* recognition for representing the values of Ursuline Education.

WORK EXPERIENCE

Web and mobile developer • Turpial Development • November 2016-Present

Web and mobile development.

Web developer • Mobile Media Hub • November 2016-Present

Web development.

Research assistance II • Simón Bolívar University, Sartenejas, Venezuela • September 2015 – Present

Activities framed in the area of modeling and parameters extraction of electronic devices, especially solar cells, tunnel field effect transistors (TFET) and metal oxide semiconductor field effect transistors (MOSFETs).

Consultor • Integra C.A. • April 2016-October 2016

Web development, integration of FrontEnd/Middleware/BackEnd and design of user interface.

Research assistance I • Simón Bolívar University, Sartenejas, Venezuela • Mayo 2013 – September 2015

Activities framed in the area of modeling and parameters extraction of electronic devices, especially solar cells, tunnel field effect transistors (TFET) and metal oxide semiconductor field effect transistors (MOSFETs).

Intern • SKAT C.A., Las Mercedes, Caracas, Venezuela • February 2013-April 2013

Performed beta testing activities, software development and took part in the elaboration of the user manual.

TEACHING EXPERIENCE

Grader of R Programming from Coursera • John Hopkins University, Baltimore, USA • July 2016-August 2016

I worked as mentor grading students Works.

Teaching assistance of Mathematic VI • Simón Bolívar University, Sartenejas, Venezuela • April 2010-July 2010

The advanced math course for engineers involved a weekly class for problem solving. The course content consists of vector calculus, vector analysis, curves theory in space R, Green, Gauss and Strokes theorems, and complex numbers.

Teaching assistance of Mathematic III • Simón Bolívar University, Sartenejas, Venezuela • April 2009-July 2009

The basic math course for engineers involved a weekly class for problem solving. The course content consists of an introduction to linear algebra, and its theorems and applications.

Teaching assistance of Mathematic II • Simón Bolívar University, Sartenejas, Venezuela • January 2009-March 2009

The basic math course for engineers involved a weekly class for problem solving. The content of the course consists of an introduction to differential calculus and integrals, definite and indefinite integrals, calculation of areas and volumes, and their applications

PROFESIONAL ACTIVITIES

Evaluadora de las siguientes conferencias: "IEEE Design of Circuits and Integrated Systems (DCIS)" y "IEEE Latin American Symposium on Circuits and Systems (LASCAS)".

PUBLICATIONS

- 1) Ortiz-Conde, F.J. García-Sánchez, J. Muci, A. Sucre-González, J.A. Martino, P.G.D. Agopian, C. Claeys, "Threshold voltage extraction in Tunnel FETs", Solid-State Electronics, Vol. 93, pp. 49-55, March 2014. <http://dx.doi.org/10.1016/j.sse.2013.12.010>
- 2) "A review of diode and solar cell equivalent circuit model lumped parameter extraction procedures." Adelmo Ortiz-Conde, Francisco J. García-Sánchez, Juan Muci, Andrea Sucre-González. Facta Univ. Ser.: Elec. Energ., vol. 27, No. 1, March 2014, pp. 57-102. <http://dx.doi.org/10.2298/FUEE1401057O>
- 3) F.J. García-Sánchez, A. Ortiz-Conde, J. Muci, A. Sucre-González, J.J. Liou, "A unified look at the use of successive differentiation and integration in MOSFET model parameter extraction", Microelectronics Reliability, Vol. 55 (2), pp. 293-307, February 2015. <http://dx.doi.org/10.1016/j.microrel.2014.11.013>
- 4) F.J. García Sánchez, A. Ortiz-Conde, J. Muci, A. Sucre Gonzalez, "Systematic Characterization of Tunnel FETs Using a Universal Compact Model", IEEE Trans. Electron Dev., Vol. 62, No. 11, pp. 3554-3559, November 2015. <http://dx.doi.org/10.1109/TED.2015.2473683>
- 5) A. Sucre-González, F. Zárate-Rincón, A. Ortiz-Conde, R. Torres-Torres, F.J. García Sánchez, J. Muci, R. S. Murphy Arteaga, "DC Method to Extract Mobility Degradation and Series Resistance of Multifinger Microwave MOSFETs", IEEE Transactions on Electron Devices, vol. PP, no. 99, March 2016, <http://dx.doi.org/10.1109/TED.2016.2538778>
- 6) A. Ortiz-Conde, A. Sucre-González, R. Torres-Torres, J. Molina, R. S. Murphy-Arteaga and F. J. García-Sánchez, "Conductance-to-Current-Ratio-Based Parameter Extraction in MOS Leakage Current Models"

IEEE Transactions on Electron Devices, vol. 63, no. 10, pp. 3844-3850, Oct. 2016.
<http://dx.doi.org/10.1109/TED.2016.2597964>

- 7) Luis Contreras, Edgard Bonilla, Alexandro Tálamo, Andrea Sucre González, Ricardo Santos, Martha Moniz, Saúl Duque, Luis Coelho, Luis Gutiérrez, Henry Ojeda “La escritura hecha en casa: Premios del concurso Segundo Serrano Poncela 2011-2015. Universidad Simón Bolívar” Editorial Equinoccios, 2016.
- 8) Adelmo Ortiz-Conde, Andrea Sucre-González, Fabián Zárate-Rincón, Reydezel Torres-Torres, Roberto S. Murphy-Arteaga, Juin J. Liou, Francisco J. García-Sánchez. “A review of DC extraction methods for MOSFET series resistance and mobility degradation model parameters” Microelectronics Reliability, Vol.xx, pp. xx, Ener0 2017. <http://dx.doi.org/10.1016/j.microrel.2014.11.013>

PROJECTS

Sistema de pasantías USB (SPE USB) • Simón Bolívar University, Sartenejas, Venezuela • September 2016 – Present

Information system developed to expedite the internships processes and procedures offered by the USB. Developed in web2py.

TidBit • Turpial Development • April 2017 – Present

Restaurants social networking mobile application developed in Ionic

VE SIN FILTROS • Turpial Development • November 2016 - March 2017

Information of the state of the internet in Venezuela management platform developed in Django.
<http://datos.vesinfiltro.org/>

Kugadi • Mobile Media Hub • November 2016 - Diciembre 2016

Official Kugadi's web page developed in WordPress. <https://www.kugadi.com/>

Victorius • Integra Consultores • April 2016 - Octubre 2016

Activitiy planning platform developed for gyms and others businesses, developed in Java, followin the MVC model using Struts2 and springframework as framework.

Degree project: Inductive Characterization of ultra-thin superconducting films • Karlsruher Intitüt für Technologie, Karlsruhe, Germany • March 2012-August 2012

I developed the experimental setup for low temperature measurements with its interface in the program in LabView and MatLab. With this equipment ultra-thin superconducting films were measured on different substrates and of different thickness to study the critical temperature, penetration length and critical current density.

Master thesis: Inductive Characterization of ultra-thin superconducting films • Karlsruher Intitüt für Technologie, Karlsruhe, Germany • March 2012-August 2012

This work presents the development of an approximate model for the drain current of tunnel effect transistors (TFETs) operating under conditions of strong conduction. Also, the evaluation and development of different methodologies for the extraction of parameters from TFETs models is included. The methods studied can be classified into two groups: conventional threshold voltage extraction methods normally used in MOSFETs and proposed methods based on the present monomic model. Both the current approximation and the parameter extraction methods were verified by their application to experimental and simulated TFETs data.

CERTIFICATIONS

- **Introduction to CSS3** de Coursera • Michigan University, USA • February 2016
- **Interactivity with JavaScript** de Coursera • Michigan University, USA • March 2016
- **Advanced Styling with Responsive Design** de Coursera • Michigan University, USA • March 2016
- **HTML, CSS, and Javascript for Web Developers** de Coursera • Michigan University, USA • March 2016
- **R Programming** de Coursera • John Hopkins University, USA • Mayo 2016
- **Introduction to HTML5** de Coursera • Michigan University, USA • Mayo 2016
- **Analista JUNIOR GX X Ev3** • Caracas, Venezuela • Junio 2016

LANGUAGE

Spanish	English	German	Portugués
Fluid (native language)	Fluid (TOEFL 106/120)	Basic knowledge	Intermediate knowledge

AWARDS

Merit of honor • Simón Bolívar University, Sartenejas, Venezuela • June 2013

Special recognition awarded to the best students of Electronic Engineering at the present graduation ceremony. Also includes honorable mention for the thesis: Inductive characterization of ultra-thin superconducting films.

Special recognition at Irsat Pérez Urdaneta Contest 2012 • Simón Bolívar University, Sartenejas, Venezuela • May 2012.

Prize awarded to the best poems of the students of the Simón Bolívar University

Second place in the Serrano Poncela Pérez Urdaneta Competition 2012 • Simón Bolívar University, Sartenejas, Venezuela • May 2012

Prize awarded to the best essays of the students of the Simón Bolívar University

Special recognition at Irsat Pérez Urdaneta Contest 2011 • Simón Bolívar University, Sartenejas, Venezuela • May 2011

Prize awarded to the best poems of the students of the Simón Bolívar University

Primer lugar en el Concurso Araguaney 2011 • Simón Bolívar University, Sartenejas, Venezuela • 2011

Prize awarded to the best poems of the students of the Simón Bolívar University

Special recognition at Irsat Pérez Urdaneta Contest 2010 • Simón Bolívar University, Sartenejas, Venezuela • May 2010

Prize awarded to the best poems of the students of the Simón Bolívar University

Merit of honor • Simón Bolívar University, Sartenejas, Venezuela • September 2008

Prize awarded to the best students of first year in their degrees of 2007

VOLUNTEER

Translator of Coursera • May 2016 – Present

A group of Coursera students voluntarily dedicated to translate courses available in more than 30 languages.

BetaTester of Coursera • August 2016 – Present

The Coursera Beta Tester community is a dedicated group of experts and amateurs who explore Coursera courses before they open to the public and provide feedback to help instructors improve course materials

Assistant to the Events Committee of the USB Electronic Engineering Student Center • Simón Bolívar University, Sartenejas, Venezuela • July 2010 – March 2011

I was a volunteer in the organization and planning of meetings and social events.

Ranger • Simón Bolívar University, Sartenejas, Venezuela • July 2012 – February 2013

The rangers of Simon Bolivar University seek awareness of the importance of forests and green areas, and their impact on the community of Caracas. The mission focuses on the restoration, conservation and protection of the forests and other green spaces and protected areas of the Simón Bolívar University

Treasurer of the Student Center of the U. E. Merici Academy • U. E. Merici Academy, Caracas, Venezuela • 2006 – 2007

Elected member of the Student Center U. E. Merici Academy. Organization of activities such as book fair, community service and small social events

CONGRESSES

- V National USB Congress of Electronic Engineering (Participant) • Simón Bolívar University, Sartenejas, Venezuela • July 2009
- VI National USB Congress of Electronic Engineering (Participant) • Simón Bolívar University, Sartenejas, Venezuela • July 2010
- USB Electronic Engineering Telecommunications Conference (Protocol) • Simón Bolívar University, Sartenejas, Venezuela • July 2010

REFERENCES

Dr. Konstantin S. Ilin., Institut für Mikro- und Nanoelektronische Systeme (IMS). Karlsruher Institut für Technologie (KIT), Alemania, tel. 49 721 608 44447. e-mail: konstantin.ilin@kit.edu.

Prof. Francisco García-Sánchez, Dpto. Electrónica y circuitos. Universidad Simón Bolívar. Caracas, Venezuela, tel.906 4010.