



Luis Andrés Valido Fajardo

Curriculum

Education

- 2008–2013 **Computer Science Engineering**, *University of Computer Science*, Havana
- 2014 **Introduction to the development of the ALBA Comprehensive Supervision and Control System**, *University of Informatics Sciences*, Havana
- 2014 **Introduction to the LaTeX text composition system**, *University of Informatics Sciences*, Havana
- 2014 **Science Technology and Society**, *University of Informatics Sciences*, Havana
- 2014 **Creative group work techniques**, *University of Informatics Sciences*, Havana International Summer School
- 2015 **General Improvement Course for professionals in training**, *University of Informatics Sciences*, Havana
- 2016–2019 **Master in Computer Aided Engineering**, *University of Matanzas*, Matanzas

Education Online

- 2020 **Course Html**, *Sololearn platform*, Certificate 1014-20521103
<https://www.sololearn.com/Certificate/1014-20521103/pdf/>
- 2020 **Course C**, *Sololearn platform*, Certificate 1089-20521103
<https://www.sololearn.com/Certificate/1089-20521103/pdf/>
- 2020 **Course CSS**, *Sololearn platform*, Certificate 1023-20521103
<https://www.sololearn.com/Certificate/1023-20521103/pdf/>
- 2020 **Course C++**, *Sololearn platform*, Certificate 1051-20521103
<https://www.sololearn.com/Certificate/1051-20521103/pdf/>
- 2020 **Course SQL**, *Sololearn platform*, Certificate 1060-20521103
<https://www.sololearn.com/Certificate/1060-20521103/pdf/>
- 2020 **Course Java**, *Sololearn platform*, Certificate 1068-20521103
<https://www.sololearn.com/Certificate/1068-20521103/pdf/>
- 2020 **Course Ruby**, *Sololearn platform*, Certificate 1081-20521103
<https://www.sololearn.com/Certificate/1081-20521103/pdf/>
- 2020 **Course PHP**, *Sololearn platform*, Certificate 1059-20521103
<https://www.sololearn.com/Certificate/1059-20521103/pdf/>

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- 2020 **Course JQuery**, *Sololearn platform*, Certificate 1082-20521103
<https://www.sololearn.com/Certificate/1082-20521103/pdf/>
- 2020 **Course JavaScript**, *Sololearn platform*, Certificate 1024-20521103
<https://www.sololearn.com/Certificate/1024-20521103/pdf/>
- 2020 **Course C#**, *Sololearn platform*, Certificate 1080-20521103
<https://www.sololearn.com/Certificate/1080-20521103/pdf/>
- 2020 **Course Swift 4**, *Sololearn platform*, Certificate 1075-20521103
<https://www.sololearn.com/Certificate/1075-20521103/pdf/>
- 2020 **Course Python 3**, *Sololearn platform*, Certificate 1073-20521103
<https://www.sololearn.com/Certificate/1073-20521103/pdf/>
- 2020 **Course React + Redux**, *Sololearn platform*, Certificate 1097-20521103
<https://www.sololearn.com/Certificate/1097-20521103/pdf/>
- 2020 **Course Angular + NestJS**, *Sololearn platform*, Certificate 1092-20521103
<https://www.sololearn.com/Certificate/1092-20521103/pdf/>
- 2020 **Course Data Science with Python**, *Sololearn platform*, Certificate 1093-20521103
<https://www.sololearn.com/Certificate/1093-20521103/pdf/>
- 2021 **Course Machine Learning**, *Sololearn platform*, Certificate 1094-20521103
<https://www.sololearn.com/Certificate/1094-20521103/pdf/>
- 2021 **Course Python for Beginners**, *Sololearn platform*, Certificate 1157-20521103
<https://www.sololearn.com/Certificate/1157-20521103/pdf/>
- 2021 **Curso Intermediate Python**, *Sololearn platform*, Certificate 1158-20521103
<https://www.sololearn.com/Certificate/1158-20521103/pdf/>
- 2021 **Course Python Data Structures**, *Sololearn platform*, Certificate 1159-20521103
<https://www.sololearn.com/Certificate/1159-20521103/pdf/>
- 2021 **Course Responsive Web Design**, *Sololearn platform*, Certificate 1159-20521103
<https://www.sololearn.com/Certificate/1162-20521103/pdf/>
- 2021 **Course Kotlin**, *Sololearn platform*, Certificate 1160-20521103
<https://www.sololearn.com/Certificate/1160-20521103/pdf/>
- 2021 **Course Go**, *Sololearn platform*, Certificate 1164-20521103
<https://www.sololearn.com/certificates/course/en/20521103/1164/landscape/png>
- 2021 **Course Python for Data Science**, *Sololearn platform*, Certificate 1161-20521103
<https://www.sololearn.com/certificates/course/en/20521103/1161/landscape/png>
- 2021 **Course Coding for Marketers**, *Sololearn platform*, Certificate 1165-20521103
<https://www.sololearn.com/Certificate/1165-20521103/pdf/>
- 2021 **Course R**, *Sololearn platform*, Certificate 1147-20521103
<https://www.sololearn.com/certificates/course/en/20521103/1147/landscape/png>
- 2021 **The distance education model of Cuban higher education in the context of the University of Matanzas**, *University of Matanzas*, Matanzas, Virtual postgraduate course, 1 credit
<http://ehead.umcc.cu/course/view.php?id=105>

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- 2021 **Course Python for Finance**, *Sololearn platform*, Certificate 1139-20521103
<https://www.sololearn.com/Certificate/1139-20521103/pdf/>
- 2021 **Course Game Development with JS**, *Sololearn platform*, Certificate 1140-20521103
<https://www.sololearn.com/Certificate/1140-20521103/pdf/>
- 2022 **Course Web Development Fundamentals course**, *Sololearn platform*, Certificate 1141-20521103
<https://www.sololearn.com/Certificate/1141-20521103/pdf/>

Thesis

title Mechanism for incorporating SVG graphics into the SCADA GALBA HMI.

tutors Eng. Roberto Cardenas Isla, Eng. Ariel Guerra Garayta

description At the University of Informatics Sciences, Faculty 5 has several production centers among which is the Center for Industrial Informatics (CEDIN) where the Guardian of the ALBA (GALBA), which had the task of providing a solution to the development of a SCADA in conjunction with the PDVSA company. The Human Machine Interface or HMI (Human Machine Interface) is the module of the GALBA SCADA system that allows configuring, supervising and controlling industrial processes. The HMI provides a library of graphic components (CG) that make it possible to recreate as realistically as possible the processes that they occur in plants. These graphics can be simple geometric primitives or as complex as industrial components used in the industry that you want to monitor. The CGs consist of certain limitation due to its current product design and implementation that are defined by specialists and leaves open to developers its implementation mechanisms and design. The work was based on the development of a mechanism for incorporating SVG graphics into the HMI of SCADA GALBA with the purpose of solving the limitations present in the graphic components of the HMI. The development of the mechanism is supported by the agile XP methodology with the use of the Scalable Vector Graphics (SVG) standard and Qt framework.

Master's Thesis

title ROFLEXIN/LC System Man-Machine Interface Viewer for Mobile Devices.

tutors Ph.D Ramón Quiza Sardiñas

description The Center for Studies on Advanced and Sustainable Manufacturing (CEFAS) of the University of Matanzas develops the ROFLEXIN/LC project: Robust, flexible and intelligent, low-cost system for monitoring systems and mechanical processes. This project is fundamentally aimed at small and medium-sized companies, where the use of the alternatives available in the world market is not financially feasible. The present investigation arises from the need of the personnel that uses the ROFLEXIN/LC, to visualize the information collected by said system in mobile devices and tablets. The fundamental objective is to develop a mobile application capable of visualizing the information of the ROFLEXIN/LC system in real time. For the development of the proposed solution, an analysis of the main tools, technologies and methodologies used in the construction of software is carried out. The process was guided by the use of the following tools and technologies: *Visual Paradigm* as a CASE tool, UML as a modeling language, JSON as a data exchange format, and Java as a programming language. Developed with the Eclipse IDE with the ADT extension. To validate that the results achieved were those expected, a set of tests was carried out. It was possible to correct all the detected non-conformities, which means that the proposed solution is ready to be deployed. Finally, a Viewer for mobile devices and tablets with Android operating system capable of representing in real time the information coming from the ROFLEXIN/LC system was obtained.

Experience

- 2009–2015 **Integral Supervision and Control System of Alba (SCADA GALBA)**, *Developer*, Havana, University of Computer Sciences, Industrial Computer Center
Module Developer Man-Machine (HMI) belonging to the SCADA Galba project
- 2014–2016 **Sistema Automatizado Industrial basado en GNU/LINUX (SCADA SAINUX)**, *Developer*, Havana, UUniversity of Computer Sciences, Industrial Computer Center
Module developer Module-Machine (HMI) belonging to the SCADA SAINUX project
- 2016–2022 **Department of Resources for Learning**, *Developer*, Matanzas, University of Matanzas
Extensions developer to virtual learning environments of the University of Matanzas, educational applications for devices with Android operating system. Administrator of virtual learning environments of the University of Matanzas. Installation and deployment of websites with the use of CMS and LMS
- 2016–2022 **Informachy Department**, *Associate Professor*, Matanzas, University of Matanzas
Teaching category: Instructor
- 2021–2022 **Combiomed Digital Medical Technology**, *Developer*, Havana
Module developer Module-Machine (HMI) of the Software for the Control and Monitoring of the Artificial Fan for COVID-19 patients.
- 2021–2023 **Pre -University Institute of Exact Sciences of Matanzas**, *Computer contest coach*, Matanzas

Teaching

- 2016–2016 **Python programming language**, *Informatics Engineering*, Matanzas, University of Matanzas
5th year

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- 2016–2022 **Computer architecture**, *Informatics Engineering*, Matanzas, University of Matanzas
2nd year
- 2017–2020 **Specific preparation for ICPC competitions**, *Informatics Engineering*, Matanzas,
University of Matanzas
1st, 2nd and 3rd year
- 2019–2019 **Android course**, *Bachelor of Computer Education*, Matanzas, University of
Matanzas
3rd year
- 2019–2022 **Introduction to programming**, *Informatics Engineering*, Matanzas, University of
Matanzas
1st year
- 2020–2022 **Design and object -oriented programming**, *Informatics Engineering*, Matanzas,
University of Matanzas
1st year

Thesis tutoring

- 2015 **System for the Information Management of Technical Files at the Industrial Computer Center**, *Yadriel Cuesta Hechavarría*, Informatic Science University, Havana
Diploma work to opt for the title of Computer Science Engineer
- 2015 **Network State processor for SCADA-GALBA adjustments to the electricity sector**, *Carlos Manuel Castillo Chacón, Jose Manuel Acevedo Medina*, Informatic Science University, Havana
Diploma work to opt for the title of Computer Science Engineer
- 2016 **Graphic components for the representation of pipe accessories in the Sinux SCADA**, *Rosmary Pedraza Ceballo*, Informatic Science University, Havana
Diploma work to opt for the title of Computer Science Engineer
- 2016 **Graphic components for the representation of valves and pumps in the Sinux SCADA**, *Claudia María González Fernández*, Informatic Science University, Havana
Diploma work to opt for the title of Computer Science Engineer
- 2016 **Desktop customer for the display environment of the Men's Machine SCADA Sainux**, *Alik Ramón del Risco del Risco*, Informatic Science University, Havana
Diploma work to opt for the title of Computer Science Engineer
- 2016 **Graphic components for the representation of switches and selectors at the Sainux SCADA**, *Javier Bravo Calzado*, Informatic Science University, Havana
Diploma work to opt for the title of Computer Science Engineer
- 2016 **Development of storage graphic components at the Sainux SCADA**, *Luis Orlando Cejas*, Informatic Science University, Havana
Diploma work to opt for the title of Computer Science Engineer
- 2016 **Serialization mechanism for information managed in the editor SCADA SAINUX**, *Alvaro Denis Acosta Quesada*, Informatic Science University, Havana
Diploma work to opt for the title of Computer Science Engineer

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12 Marzo 1989

- 2022 **Plugin to measure the quality indicators of Moodle courses**, *Hansel Brea García*, University of Matanzas, Matanzas
Diploma work to opt for the title of Computer Engineering
- 2022 **Computer System for Human Resources Management and Services of the Artistic Creation Project Vigía**, *Ramsey Ricardo Busto Martínez*, University of Matanzas, Matanzas
Diploma work to opt for the title of Computer Engineering
- 2023 **Antencional test system for the “Antonio Guiteras” thermoelectric**, *Ronald Guillén Sintes*, University of Matanzas, Matanzas
Diploma work to opt for the title of Computer Engineering

Thesis opponent

- 2017 **Software for the management of internal client information in hotel systems from the endonarcoeting perspective**, *Fabianne Díaz Santiago*, University of Matanzas, Matanzas
Diploma work to opt for the title of Computer Engineering
- 2019 **Computer Information System for the Directorate of the University of Matanzas, SID**, *Rasiel Valdespino Jiménez*, University of Matanzas, Matanzas
Diploma work to opt for the title of Computer Engineering

Idioms

- Spanish Native
- English Professional competence

Tools and technologies

- Programming language C, C++, Java, JavaScript, Html5, CSS, Python, PHP, SQL, Bash
- Operating systems Debian, Ubuntu, Window, Android
- Frameworks Qt, Yii, CodeIgniter, JQuery, AngularJS, W3CSS, Bootstrap, Django
- Content management system Joomla, Moodle, WordPress
- Database manager Postgres, MySql
- 2D graphic design Gimp, Inkscape
- CASE Tool Visual Paradigm
- Web server Apache, XAMPP
- Text processor LaTeX

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Publications

- 2017 **Mechanism for the automation of backup copies of the Virtual Learning Environment of the University of Matanzas**, *VIII International Scientific Convention of the University of Matanzas*, V International Engineering Workshop, Matanzas
Published in citc.umcc.cu with the ISBN code: 978-959-16-3296-8
- 2017 **"Cesar and the numbers": computer resource to promote the learning of the sum operation, in the first grade**, *XIX International Event "Mathematics, Statistics and Computing"*, MATECOMPU 2017, Varadero
Published in citc.umcc.cu with the ISBN code: 978-959-16-3671-3
- 2018 **Support tool for the probability and statistics subject to graph probability distributions in the distance education study modality of the University of Matanzas**, *Opuntia Brava Magazine, Group I Cuban Classification*, Las Tunas
Published in the book Science and technological innovation vol II, in the chapter *Distance learning*. With ISBN for the complete work 978-959-7225-26-3, ISBN for the chapter 978-959-7225-34-8
- 2018 **Development of the Bezier quadratic and cubic curve graphic components**, *Monographs*, University of Matanzas, Matanzas
Published in monografia.umcc.cu (<http://monografias.umcc.cu/monos/2018/FCT/mo1871.pdf>)
- 2018 **Graphical user interface for interaction with SCADA SAINUX modules (VSERSAI)**, *Monographs*, University of Matanzas, Matanzas
Published in monografia.umcc.cu (<http://monografias.umcc.cu/monos/2018/FCT/mo1872.pdf>)
- 2018 **ROFLEXIN/LC system Man-Machine Interface viewer for Android mobile devices**, *Monographs*, University of Matanzas, Matanzas
Published in monografia.umcc.cu (<http://monografias.umcc.cu/monos/2018/FCT/mo1876.pdf>)
- 2019 **Intelligent and low-cost monitoring architecture for mechanical system and processes**, *IX International Scientific Conference*, Holguin University, Holguín
ISBN:978-959-7237-34-1
- 2020 **MiGimusic: APK to promote musical education in pioneering Rhythmic Gymnastics**, *International Congress online CUBAMTRICIDAD*, University of Sciences of Physical Culture and Sport Manuel Fajardo, Havana
ISBN:978-959-07-2395-7
- 2020 **Technological innovation for musical education in Musical Rhythmic Gymnastics**, *1st National ONLINE Innovation Workshop*, National Institute of Sports Physical Education and Recreation, Havana
ISBN:978-959-203-237-8
- 2021 **The use of mobile devices in Cuban university teaching**, *Academia.edu*, https://www.academia.edu/47857643/EL_USO_DE_DISPOSITIVOS_MOVILES
- 2021 **The use of mobile devices. An innovative experience in professional training**, Book *The science of the University of Matanzas in the confrontation with COVID-19*, Editorial UM

Events

- 2008 **Pascal Cup**, *University of Computer Sciences, Havana*
Contestant
- 2009 **Pascal Cup**, *University of Computer Sciences, Havana*
Contestant
- 2010 **Pascal Cup**, *University of Computer Sciences, Havana*
Contestant
- 2011 **Pascal Cup**, *University of Computer Sciences, Havana*
Contestant
- 2011 **Cuban Final of ACM-ICPC**, *University of Computer Sciences, Havana*
Contestant
- 2011 **My website for Cuba**, *University of Computer Sciences, Havana*
Relevante
- 2012 **Pascal Cup**, *University of Computer Sciences, Havana*
Contestant
- 2012 **Student Scientific Conference**, *University of Computer Sciences, Havana*
Three relevant, one outstanding and three mentions
- 2012 **My website for Cuba**, *University of Computer Sciences, Havana*
One outstanding and one mention
- 2013 **Student Scientific Conference**, *University of Computer Sciences, Havana*
Outstanding
- 2015 **Pachamama Game Jam**, *University of Computer Sciences, Havana*
Third place
- 2017 **VI UM Programming Cup**, *University of Matanzas, Matanzas*
Third place, Coach
- 2017 **CEPROMEDE Scientific Conference**, *Provincial Center of Sports Medicine, Matanzas*
- 2017 **Cuban Final of ACM-ICPC**, *Technological University of Havana José Antonio Echeverría, Havana*
Coach
- 2017 **XIX International Event "The teaching of Mathematics, Statistics and Computing"**, *University of Matanzas, Matanzas*, Ponencia: César y los números: recurso informático para favorecer el aprendizaje de la operación suma, en el primer grado
- 2017 **Cyber-physical Systems Seminar: Modeling and Control**, *University of Matanzas, Matanzas*
- 2018 **VII UM Programming Cup**, *University of Matanzas, Matanzas*
Coach
- 2018 **XIV Methodological Scientific Conference of the University of Matanzas**, *University of Matanzas, Matanzas*

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- 2018 **Concurso Local ACM-ICPC**, *University of Matanzas*, Matanzas, 2do Lugar
Coach
- 2018 **ACM-ICPC National Competition**, *Military Technical Institute "Jose Martí"*,
Havana
Coach
- 2018 **University Forum of Sciences and Techniques**, *University of Matanzas*, Matanzas,
Presentation: *Application for monitoring systems and mechanical processes from
mobile devices*
Mention
- 2018 **II International Symposium of the Network of Researchers of Science and
Technology: Science and Technological Innovation**, Las Tunas, Presentation:
*Support tool for the probability and statistics subject to graph probability distributions
in the distance education study modality of the University of Matanzas*
- 2019 **Seminario Computational intelligence for modeling and control of industrial
cyber physical system: Research challenges and opportunities.**, *University of
Matanzas*, Matanzas
- 2019 **VIII UM Programming Cup**, *University of Matanzas*, Matanzas
Coach and organizer
- 2019 **IX International Scientific Convention**, *VI International Engineering Workshop*,
University of Matanzas, Matanzas
ROFLEXIN/LC system man-machine interface viewer for mobile devices
- 2019 **IX International Scientific Conference**, Holguin University, Holguín
Intelligent and low-cost monitoring architecture for mechanical system and processes
- 2019 **ICPC National Competition**, *University of Matanzas*, Matanzas
Coach
- 2019 **ICPC Caribbean Regional Final**, *Eastern University*, Santiago de Cuba
Coach
- 2020 **First Online Innovation Workshop**, *Technological innovation for music education
in pioneering rhythmic gymnastics*, INDER
- 2021 **ICPC Caribbean Finals (Qualifier)**, *Provincial Directorate of Education*, Matanzas,
Preuniversity Teams - Bronze
Coach
- 2022 **ICPC Caribbean Finals (Qualifier)**, *University of Matanzas*, Matanzas
Coach
- 2022 **ICPC Caribbean Regional Final**, *University of Computer Sciences*, Havana
Coach
- 2023 **ICPC Caribbean Finals (Qualifier)**, *University of Matanzas*, Matanzas, Preuniver-
sity Teams - Bronze
Coach
- 2023 **ICPC Caribbean Regional Final**, *University of Computer Sciences*, Havana
Coach

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Research

- 2020 **Educating with José Martí in the Cuban school**, *Education Faculty. University of Matanzas*
Collaborator

Acknowledgments

- 2013 **Productive results**, Havana, Informatic Science University, Faculty 5
2014 **Software developer**, Havana, Informatic Science University, Industrial Computing Center
2014 **Outstanding**, Havana, Informatic Science University, Industrial Computing Center
2017 **Guest**, *ACM-ICPC Caribbean Regional Final*, Villa Clara, Central University of Las Villas "Marta Abreu"
2018 **Guest**, *ACM-ICPC Caribbean Regional Final*, Havana, Informatic Science University
2019 **Acknowledgment**, *Outstanding Quality Worker*, University of Matanzas, Matanzas