

LAURA CORTÉS-RICO

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Universidad Militar Nueva Granada

Km 2, Cajicá-Zipacquirá+◊ Cajicá, Colombia

EDUCATION

- **Pontificia Universidad Javeriana, Bogotá-Colombia** *July 2012 - October 2015*
Department of Systems Engineering
M.S. in Computer and Systems Engineering [*Cum Laude*]
- **Universidad Nacional de Colombia, Bogotá** *July 2010 - July 2015*
Department of Electrical and Electronic Engineering
Electronics Engineer

WORK EXPERIENCE

Universidad Militar Nueva Granada

- **ACADEMIC DIRECTOR MULTIMEDIA ENGINEERING** *July 2021 - Present*
Engineering Faculty *Campus Nueva Granada*
Academic and administrative management of multimedia engineering graduate program.
- **ACADEMIC DIRECTOR RESEARCH CENTER** *January 2020 - July 2021*
Engineering Faculty *Campus Nueva Granada*
Leadership and management of the faculty research activities.
- **MULTIMEDIA ENGINEERING ASSISTANT PROFESSOR** *July 2017 - Present*
Engineering Faculty *Campus Nueva Granada*
Classes: Artificial Intelligence, Signal Processing, Software Engineering, Computer Programming, Computer Graphics Introduction, Internet of Things, Interactive Objects and Environments.

Politécnico Grancolombiano

- **PROFESSOR M.S. IN SYSTEMS ENGINEERING** *2016-1, 2016-2, 2018-2, 2019-2, 2021-1*
Class: Pattern Recognition.
- **PROFESSOR SYSTEMS AND TELECOMMUNICATIONS ENGINEERING** *August 2012 - June 2017*
Classes: Computer Architecture, Logic Circuits, Electric Circuits.

Universidad Distrital Francisco José de Caldas

- **PROFESSOR M.S. IN TECHNOLOGY EDUCATION** *2017-1, 2018-1*
Class: Technological Systems.

Pontificia Universidad Javeriana

- **PROFESSOR SYSTEMS ENGINEERING** *July 2011 - June 2017*
Class: Algorithmic Thinking.

Picolab

- **TECHNOLOGY DIRECTOR** *August 2012 - Present*
Technical Direction on conceiving, designing, and developing interactive experiences.

e-motion Digital

- **DIGITAL AND INTERACTIVE COORDINATOR** *June 2012 - March 2013*
Project management in the area of digital and interactive marketing.

Maloka

- DEVELOPMENT PROFESSIONAL *March 2011 - May 2012*
Hardware and software design for interactive experiences in the museum.
- TECHNOLOGY PROFESSIONAL *October 2010 - March 2011*
Project management in the technology line: Video-games, Science and Technology Clubs.
- TUTOR OF ROBOTICS AND TECHNOLOGY CLUBS *January 2008 - July 2010*
Conception, development, and systematization of activities for the social appropriation of technology with children and young.

ACHIEVEMENTS

- 2020. Honor Mention “Artful Integrators Award - Participatory Design Conference 2020” with the project “Mending the New: A Framework for Reconciliation Through Testimonial Digital Textiles in the Transition to Post-Conflict Rural Colombia”
- 2014-2015. Juan Pablo Gutiérrez Cáceres Intern
- 2012. First place “Premios Incluir” in the category “Software and Applications”, from the Foundation *Saldarriaga Concha*, *MinTIC* and *Colnodo*. Proposal “*Audiocity*. An audio-game for people in the situation of visual disability.”

RESEARCH

Research and Development Projects

- 2020. Main Researcher “Digital repertoires: computational representations of textile practices and processes around conflict and peace; case study: Sonsón, Antioquia”, Code INV-ING-3192 Funded by *Universidad Militar Nueva Granada*.
- 2020. Co-researcher “Wearables as a channel in affective communication, a step towards emotional telepresence”, Code INV-ING-3191 Funded by *Universidad Militar Nueva Granada*.
- 2019-2020 Co-researcher “Nanoscale functionalized fine bubble diffusers: Study of their useful life and oxygen transfer in activated sludge processes”, Code IMP-ING-2930 Funded by *Universidad Militar Nueva Granada*.
- 2019. Main Researcher “Knowledge dialogue in the creation of crated interfaces for the interaction with mobile devices”, Code INV-ING-2981 Funded by *Universidad Militar Nueva Granada*.
- 2019. Advisor “Mending the New: A Framework for Reconciliation Through Testimonial Digital Textiles in the Transition to Post-Conflict Rural”, Code FP44842-281 Funded by Newton Caldas Fund.
- 2014-2015. Research Assistant “Embroidering self-knowledge. Participatory design of a social technology oriented to the recognition of the crafted embroidery of Cartago, Colombia as a care practice” Funded by *COLCIENCIAS*, *Pontificia Universidad Javeriana*, and *Politécnico Gran-colombiano*.
- 2015-2016. TRIBUKA (GPSTORIES) - Picolab. Technical Director. GPStories, Gamification in museums. Funded by *COLCIENCIAS* and *MinTIC*, for the call 680-2014.
- 2012. KUIKA (QUYCA) - e-motion Digital. Technical Director of the video-game Kuika, winner of *Crea Digital 2012*. Funded by *MinTIC* and *MinCultura*.

Publications Zotero Profile: <https://www.zotero.org/lacortes>

OTHER ISSUES

- Certificate English IELTS 6.5
- Programming Languages: Java, C++, C#, Python, Matlab, LabVIEW, JavaScript, Basic. Design Software: Photoshop, Illustrator. Others: L^AT_EX, Proteus, HTML5, Unity3D.

EXTRA-CURRICULAR

Hobbyist Climber.

PADI Diver - Advanced Open Water Diver

Embroidery and crochet learner.

Member of: *Artesanal Tecnológica, Amautas Huarmis.*
