



## Jorge Andrés Cock Ramírez

**Identity Document Number:** 71726396

**Passport number:** BC537539

**Birthdate:** 26/10/1971

**Place of birth:** Medellín, Colombia

**Nationality:** Colombian

## CONTACT



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europass

## ABOUT ME

Production Engineer, with a Master's degree in Engineering, specialist in automation, and technologist in information systems analysis and development, focused on the fields of advanced manufacturing, automation, robotics, mechatronics, information systems, software, industrial processes, and production management.

University professor and lecturer, with experience in both industry and academia. Experienced in Research and Development (R&D), technology and project management, plant maintenance, and production support.

With basic knowledge and experience in developing and programming information platforms using PHP, HTML5, APIs, SQL, FrontEnd and BackEnd implementation, API and firmware development, and microcontroller programming with IoT,

A curious and collaborative spirit, constantly learning. For example, currently studying web frameworks, agile methodologies, and cybersecurity.

## WORK EXPERIENCE

**03/2015 – 12/2024** Medellín, Colombia

### Instructor and Researcher

National Learning Service SENA

— Instructor for the programs of Industrial Production Management, Production Plant Resource Management, Integrated Quality Management, and Electromechanical Maintenance, teaching subjects such as Automation Fundamentals, Manufacturing Processes, Advanced Electronics, Descriptive Statistics, Statistics and Sampling, Mathematics, Production Costs, Quality and Productivity, Statistical Process Control (SPC), Financial Mathematics, Procurement and Supplier Management, Entrepreneurship, Inventory Management, Electropneumatics, and Smart Tools.

— Researcher in various projects related to IoT, Manufacturing, Additive Manufacturing, Software Programming, and Technological Design and Management.

**06/2015 – 12/2019** Medellín, Colombia

### University professor of engineering

Luis Amigó Catholic University

— Professor of the subjects: Research Methodology (general and quantitative), Metrology, Science, Technology and Innovation Management, Materials Science, Applied Mathematics, and Strategic Planning for Systems..

— Editor of the scientific engineering journal Lámpsakos.

**01/2013 – 06/2014** Caldas, Antioquia, Colombia

### University professor of engineering

Lasallista University Corporation.

— Professor of the subjects: Advanced Production, Industrial Maintenance Seminar, Industrial Processes, and Digital Circuits..

— Researcher in the design and assembly of a prototype device for insulation and temperature regulation of isothermal boxes, with a granted patent.

**07/2012 – 12/2012** Medellín, Colombia

**University professor of engineering**

Metropolitan Technological Institute (ITM)

— Professor of the subjects: Data Acquisition Systems, Signal Conditioning, Signal Analysis, Robotics Principles, and Wireless Networks.

**02/2012 – 07/2012** Medellín, Colombia

**Technical and Commercial Coordinator** AWS Solutions in Automation and Welding SAS

— Consultancy, technical assistance, installation, and maintenance of robots and robotic cells.  
— Commercialization of Kuka brand robots and welding equipment with different technologies.  
— Coordination of the technical department for equipment maintenance.

**08/2011 – 12/2011** Medellín, Colombia

**Program Coordinator for Business Administration** American University Corporation (CUA)

— Coordinate the academic program by monitoring professors, résumés, attendance compliance, and managing micro-curricula. Track the use of classrooms.  
— Monitor students, verifying their level of satisfaction and reasons for dropout.  
— Teach courses in Strategic Management, Market Management, Administrative Processes, International Strategic Negotiation, and Business Plans.

**11/2010 – 02/2011** Medellín, Colombia

**Project director** Group Swiss Engineering

— Management of production plant installation projects for biofuels, bioethanol, and biodiesel  
— Feasibility project for ethanol production using coffee wood and cogeneration.  
The company closed, and the project could not be carried out.

**04/2007 – 11/2010** Copacabana, Antioquia, Colombia

**Corporate-Level Technology Research Analyst, Research and Development (R&D)** Haceb Industries.

— Responsible for the management, monitoring, and research of technologies applicable to the manufacturing process and product design. Information and knowledge management.  
— Research and Development.  
— Leadership in the welding plant project for ovens.  
— Development of a manufacturing cell project with a CNC punch press.  
— Feasibility study for a tube forming plant and stove manufacturing.  
— Other feasibility studies and testing.

**10/1996 – 04/2007** Medellín, Colombia

**Research and Development Engineer – Automated Test Equipment (ATE) Development** Celsa S.A.

— Development of general automation (Software, Hardware, and Firmware) for laboratory and production equipment in manufacturing plants for electronic devices, lighting, and public telephones.  
— Participation in the design of electronic products.

**06/2013 – ACTUAL** Medellín, Colombia

**Consulting Engineer and Technician** Giram Micrón

Family Business and Freelance Work.

— Maintenance of optomechatronic equipment.  
— Company management.  
— Development of design projects: mechatronic and robotic products, automation, and software.  
— Supervision of thesis projects, project evaluation, and academic research guidance.  
— Web consulting.

**6/1991 – 6/2020 At different time intervals.** Medellín, Colombia

**University Engineering Professor, Monitor, Assistant** Universidad Eafit

— Professor of the subjects: IoT, actuators, sensors, hydraulics and pneumatics, Machine Elements Project, Solid Mechanics, Control Systems, Robotics.

— Monitor for Physics and Technical Drawing.

## EDUCATION AND TRAINING

**25/07/2014** Medellín, Colombia

**Master's Degree in Engineering** | Pontifical Bolivarian University UPB | Web [www.upb.edu.co](http://www.upb.edu.co)

**Field of Study:** Electronics and Automation, Engineering, and related professions without further definition

**EQF-MEC Level:** Level 7 | **Thesis:** Control of a Parallel Geometry Robot

**07/09/2001** Medellín, Colombia

**Specialization in Automatics** | Pontifical Bolivarian University UPB | Web [www.upb.edu.co](http://www.upb.edu.co)

**Field of Study** Electronics and automation | **EQF-MEC Level:** Level 7 | **Thesis:** Study on Cooperative Robotics and Fractal Cellular Systems

**12/12/1996** Medellín, Colombia

**Production Engineering** | Eafit University | Web [www.eafit.edu.co](http://www.eafit.edu.co)

**Field of Study** Industry and production without further definition | **EQF-MEC Level:** Level 6 | **Thesis:** Design of a Data Acquisition System for a Seismic Engineering Project by Universidad Nacional, EAFIT, and Colciencias.

**22/02/2024** Medellín, Colombia

**Technology in Analysis and Development of Information Systems ADSI** National Learning Service SENA

Web [www.sena.edu.co](http://www.sena.edu.co) **Field of Study:** Information and Communication Technologies (ICT) without further definition, Development and Analysis of Software and Applications | **EQF-MEC Level:** Level 6

**2014** Caldas, Colombia

**Diploma in Technology Assessment**

Lasallista University Corporation | Web [www.unilasallista.edu.co](http://www.unilasallista.edu.co)

**2007** Medellín, Colombia

**Diploma in Supervisor Management in the Manufacturing Industry**

San Buenaventura University | Web [www.usbmed.edu.co](http://www.usbmed.edu.co)

## LANGUAGE COMPETENCES

**MOTHER LANGUAGE(S):** Spanish

**Other language(s):**

**English**

**Listening comprehension** B1

**Oral Production** B1

**Reading comprehension** C2

**Oral interaction** B1

**Written expression** B2

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## DIGITAL COMPETENCIES

Interaction through digital technologies | Gmail | Proficiency in Google tools (Gmail, Drive, Google Forms, etc.) | Microsoft Office (Word, PowerPoint, Excel, Access, Project) | PDF | 3D Tools | SolidWorks | AutoCAD | Cura | PHP, HTML, CSS, JS, SQL | Basic knowledge of C++ and Java | NI LabVIEW | Internet of Things (IoT).

Pneumatics and Hydraulics | Robotics | Electronics & Electricity | Statistics and Inference | Mathematics | Microcontrollers | Arduino | 3D Printing

## SOFT SKILLS

Problem-solving | Critical thinking and analysis | Communication | Project management | Teamwork | Fast learning ability | Adaptability | Workplace responsibility.

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### *Declaration:*

*I declare that the information provided in this document is truthful and corresponds to my experience and qualifications. I authorize the processing of my personal data for the purposes of selection processes, in accordance with the applicable data protection regulations..*

Medellín, Colombia, 24/02/2025



Jorge Andrés Cock Ramírez