

Felipe Gonzalez Roldan

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EDUCATION

Universidad Nacional de Colombia, Bogotá, Colombia

- PhD in Mechatronics and Mechanics Engineering Jan 2020- Current
- Master's Degree in Industrial Automation Aug 2016–Jun 2019
 - Average: 4.6 / 5.0
 - Thesis: Off-line generation of collision-free trajectories for industrial manipulators.
- Bachelor's degree in Mechatronics Engineering Feb 2008–Feb 2014
 - Average: 4.4 / 5.0
 - Thesis: Design of a mechanism of complex axes: Parallel robot type delta.

Institución Educativa Compartir Bochica, Bogotá, Colombia

- Academic High School Nov 2007
 - Best score in ICFES state tests at school level.

PROFESSIONAL EXPERIENCE

Universidad Militar Nueva Granada, Bogotá, Colombia

- Chair Professor, Mechatronics Engineering Coordination Jan 2021- Current
 - Teach the subjects of Sensors and Laboratory.

Universidad ECCI, Bogotá, Colombia

- Full-time Professor, Mechatronics Engineering Coordination Jul 2018- Mar 2021
 - Perform teaching tasks in the subjects of Industrial Robotics, Robotic Platforms, Actuators, Deepening Elective (programming in Matlab) and Fundamentals of Automation and Robotics.
 - Carry out research activities through the direction of degree projects and support to seedbeds.

Universidad Nacional de Colombia, Bogotá, Colombia

- Occasional Lecturer, Department of Mechatronics and Mechatronics Engineering Jul 2018 – Jul 2019
 - Teach Robotics for 3 groups per semester.
- Teaching Assistant, Department of Mechatronics and Mechatronics Engineering Aug 2017 – Jun 2018
 - Teach Robotics for 3 groups per semester.
 - Implement course activities using ROS (Robotic Operative System).

Colsein LTDA, Tocancipá, Cundinamarca, Colombia

- Research and Development Engineer Jan 2014 – Aug 2017
 - Design, construct, and start-up technological and industrial innovation projects.
 - Commercialization of the tank capacity service and 3D spatial digitization.
 - Management of robotic applications of Aerotech and Surphaser for implementation in industrial environments.
 - Integration of high precision laser sensor with optical distance measurement system.

Abre Soluciones SAS, Bogota, Colombia

- Support Engineer 2014 – Nov 2017
 - Integration of access control systems through biometric devices. Support for electronic equipment.
 - Creation of key customers for the sale of printing and access control equipment. Organization of inventories for printing machines.

DISTINCTIONS

- Scholar Colciencias Bicentenario corte I, Universidad Nacional de Colombia 2020 – 2023
- Teaching Assistant Scholarship, Universidad Nacional de Colombia 2017 – 2018
- Automatic Admission to Postgraduate Studies, Universidad Nacional de Colombia 2016
- Tuition waiver for 10 semesters, Universidad Nacional de Colombia 2008 – 2013

LANGUAGES

- Spanish: Native.
- English: TOELF iBT - Score: 105/120

SKILLS

- **Computer Science:** Solidworks, Geomagic DesignX, Autodesk ReCap, Autodesk AutoCAD, ABB Robot Studio, URSim, FluidSim, Proteus, Studio 5000, Zeliosoft.
- **Programming:** Matlab, Simulink, C, Python, Ladder, FBD, \LaTeX .
- **Office automation:** Word, Excel, PowerPoint, Photoshop.
- **Operating systems:** Windows, OS X, Ubuntu.

INTERESTS

Technology, computing, sales, digital business, education, football.