

Andres Felipe Porras Cordoba

Mechatronic Engineer — MSc Robotics

Sheffield, United Kingdom

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Professional Profile

Mechatronics Engineer and MSc Robotics graduate with strong expertise in mechanical design, software development, and electronics. Proven track record in delivering scalable software solutions, optimizing technical processes, and integrating multidisciplinary systems. Recognized for adaptability, quick learning, and problem-solving skills in fast-paced environments.

Professional Experience

Aug 2025 – Present **Full Stack Developer Intern**, *FluidMS*, UK

- Develop and maintain a full-stack project using Node.js and Microsoft Azure.
- Update and manage project documentation to ensure clarity and consistency.
- Improve user interfaces for enhanced usability and user experience.
- Implement performance optimizations, minimizing response times and improving overall system efficiency.

Sep 2024 – June 2025 **Support Worker – Disability and Dyslexia Support Service (DDSS)**, *University of Sheffield*, UK

- Provided academic support to students with disabilities, ensuring equal access to educational content.
- Assisted in understanding complex concepts and interpreting assignments.

Sep 2024 – Jun 2025 **Digital Innovation Zone Advisor**, *University of Sheffield*, UK

- Supported students and staff in the use of advanced digital technologies including CAD, 3D printing, 3D scanning, and digital simulation.
- Delivered guidance and troubleshooting to facilitate innovation and prototyping within the Siemens-University of Sheffield Digital Innovation Zone.
- Promoted collaboration across disciplines by assisting diverse student projects and encouraging hands-on experimentation with cutting-edge tools.

May 2024 – Sep 2024 **Customer Service Agent**, *Teleperformance Colombia*, Colombia

- Managed high-volume customer inquiries, achieving high satisfaction rates.
- Resolved complaints and escalations while maintaining professionalism.
- Documented interactions in CRM systems to ensure accurate records.

Aug 2023 – Apr 2024 **Back-End Developer**, *Apps Inc*, Colombia

- Designed, developed, and maintained scalable backend systems using C#.
- Implemented performance optimizations, minimizing response times, and improving overall system efficiency.
- Produced and maintained API documentation.

Sep 2022 – Jun 2023 **Front-End Developer**, *Cevi Med Medical Equipment & Supplies*, United States Remote

- Developed and maintained responsive web interfaces and landing pages.
- Improved process efficiency through custom programming solutions.
- Enhanced website performance and user experience.

Education

Sep 2024 – Present **MSc Robotics (Distinction)**, *University of Sheffield*, UK

Aug 2017 – Jun 2022 **BEng Mechatronics Engineering (2:1)**, *Universidad Militar Nueva Granada*, Colombia

Certifications

September 2018	Certified SolidWorks Associate in Mechanical Design (CSWA) – Dassault Systèmes
December 2021	Diploma in Project Management & Strategic Thinking – University of Central Florida
February 2025	Build MATLAB Proficiency – MathWorks

Languages

Spanish	Native
English	Advanced (C1, Certified by IELTS)

Key Skills

Programming	MATLAB, Python, C++, C#, Java, JavaScript, HTML/CSS, Unity, Arduino, Git
Mechanical & CAD	SolidWorks (CSWA certified), Siemens Solid Edge, mechanical design, 3D modeling
Electronics & Simulation	LTSpice, Proteus, LabVIEW, ROS 2, CoppeliaSim
Industrial Automation	Siemens PLCs, TIA Portal, Arduino, automation systems integration
Technical Tools	Microsoft Office, Microsoft Azure, GitHub, Visual Basic, MATLAB Toolboxes, Simulink, Simscape