Juan Armando Villota

Automation Specialist & Civil Engineer

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Professional Summary

Automation Specialist and Civil Engineer with extensive experience in optimizing construction processes through innovative technological solutions. Skilled in leading cross-functional teams and implementing custom automation tools using platforms such as Bubble.io, AppScript, Python, and Zapier. Focused on enhancing operational efficiency, streamlining workflows, and integrating advanced CRM systems to drive productivity and business growth.

Key Achievements

Developed a comprehensive customer care and internal team portal for Rechsteiner Construction, integrating AI tools with data from the Bubble API, significantly improving workflow efficiency and client interaction. Streamlined budget consolidation through a Google Sheets template with AppScript automation, reducing manual updates by 60%. Enhanced operational efficiency by 35% through the custom CRM system in Monday.com and improved client engagement with a dynamic customer portal. Automated service call scheduling, cutting response time by 40%, and reduced proposal preparation time by 50% with an automated system. Boosted productivity by 25% with GPT-based sales and project management tools, and improved customer interaction by integrating a custom chatbot on the company website.

Work Experience

Rechsteiner Signature Homes
Automation Specialist & Pre-Construction Coordinator
June 2024 – Present | Vancouver, British Columbia, Canada (Remote)

- Spearheaded the development of a comprehensive customer care platform, integrating AI-driven solutions with data from Bubble API to streamline client interactions and internal workflows, reducing manual processes by 40%.
- Optimized project management workflows through custom automation tools, significantly enhancing communication between field and sales teams, leading to a 35% improvement in operational efficiency.
- Collaborated with field teams and sales to integrate advanced data analysis tools, improving decision-making processes and client engagement, resulting in faster project timelines and increased client satisfaction.

Rechsteiner Signature Homes
Admin and Automation Assistant
June 2023 – June 2024 | Vancouver, British Columbia, Canada (Remote)

- Led the automation of various company processes, including configuring a custom CRM using Monday.com, improving lead management and follow-up processes, and increasing team productivity by 25%.
- Developed and implemented email marketing automation through Mailchimp, integrated with the CRM using Zapier, which improved client engagement by 30%.
- Integrated a custom chatbot on the company website using Botpress and advanced CSS/JS modifications, enhancing customer support efficiency and reducing response times by 40%.
- Created and deployed multiple internal apps using AppSheet and Bubble.io to streamline data management and automate reporting, significantly improving the accuracy and accessibility of project data for the management team.

Habi
Consultant (Post-Habi Project)
May 2024 – June 2024 | Bogotá, Colombia (Remote)

- Re-engaged as a consultant to optimize the budget creation process, developing custom Visual Basic and App Script algorithms to streamline workflows and reduce manual input by 60%.
- Collaborated with the data team to align new templates with existing API structures, enhancing the integration between budget data and internal applications, leading to faster and more accurate reporting.
- Identified inefficiencies in internal processes and implemented automation solutions that improved overall operational productivity by 15%, saving time and reducing errors in critical tasks.

Habi
Internal Tools Specialist
Nov. 2022 – June 2023 | Bogotá, Colombia (Hybrid)

- Led the development of a custom scheduling application that optimized property visit coordination across multiple teams, improving scheduling efficiency by 85% and enabling seamless replication across different regions.
- Designed and implemented a comprehensive property management system that streamlined data management for hundreds of properties, significantly enhancing operational oversight and reducing manual input by 40%.
- Collaborated with cross-functional teams to gather requirements and integrate key functionalities into internal tools, resulting in a 30% improvement in workflow efficiency and operational transparency.

Habi
Remodeling Analyst
May 2022 – Nov. 2022 | Bogotá, Colombia (Hybrid)

- Led a team of analysts to produce 20 daily renovation budgets, ensuring alignment with company standards and facilitating competitive client offers.
- Collaborated with the commercial team to adjust remodeling costs, improving budget accuracy and increasing the competitiveness of offers by 10%.
- Conducted weekly performance reviews, providing feedback and optimizing processes, which improved the team's efficiency by 15%.
- Developed operational tools and automated workflows using Excel macros, reducing manual workload and accelerating budget creation by 30%.

Maeds Constructores S.A.S
Junior BIM Modeler
Aug. 2021 – May 2022 | Bogotá, Colombia (Hybrid)

- Developed and updated architectural building models using Revit, ensuring accurate representation and on-time delivery of construction plans across multiple projects.
- Calculated quantities and prepared detailed plan packages, contributing to the successful execution of project phases and reducing errors in material estimation by 15%.
- Collaborated with construction committees to review and revise architectural designs, ensuring compliance with site conditions and improving project efficiency through precise design adjustments.

JEG SAS
Engineering Assistant / Geotechnical Testing Laboratory
Jan. 2021 – Dec. 2021 | Bogotá, Colombia (Remote)

- Digitized and organized laboratory test results for geotechnical investigations, improving data accessibility and retrieval speed by 40%.
- Automated Excel templates using macros, streamlining data management and reporting processes, which reduced reporting time by 25%.
- Enhanced accuracy in data handling and reporting through the development of automated solutions, contributing to a more efficient laboratory workflow.

Courses and Certifications

		Certificates
2022–2023	Web Development & Cloud Computing, Data Processing	**NextU**
2022	Diploma in BIM Revit Civil Engineering, Computer-Aided Design	**NASKA DIGITAL**
2017-2022	Bachelor's in Civil Engineering	**Colombian School of Engineering Julio Garavito**
2016	High School Diploma, Excellence Program Awarded "Andres Bello" by the Ministry of Education for academic excellence.	**Gimnasio José Joaquín Casas**

Programs and Skills

- **Programming Languages:** Python, JavaScript, Visual Basic, HTML, CSS
- **Tools & Platforms:** Bubble.io, Monday.com, Zapier, Pandadoc, AppSheet
- **BIM Software:** Revit, Navisworks, Infraworks, BIM 360
- **Data Management:** SQL, Excel (Macros), Google Cloud Platform
- **Automation:** App Script, API Integration, Make, Zapier
- **Methodologies:** Agile, BIM Methodology
- **Soft Skills:** Team Collaboration, Problem-Solving, Client Engagement

Relevant Links:

- Certificates
- Portfolio
- LinkedIn

Languages

- English
- Spanish