**ANDRÉS FELIPE DÍAZ LÓPEZ**

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| **Personal statement** | Electrical and electronic engineer with 3+ years of experience working in XM – The Colombian ISO - Excellent interpersonal and communication abilities, and practical approach to problem-solving and a drive to see things through completion. |
| **Professional experience** | **Mar.2021 to date (6 months) - Freelance**  **Medellín, Colombia**  Web development freelance  **Jul.2017 to 2021 (3+ years) – XM S.A. E.S.P. – Colombian ISO**  **Medellín, Colombia**  Knowledge of power systems operation including:   * Power System Modelling * Outage planning assessment   Knowledge of electrical market administration including:   * Trade borders registration (knowledge of Colombian regulation)   Software development experience applied to power system studies such as:   * Electric Market – Manager for the borders team * Automated software for a specific task on the short-term outage planning process and the trade border registration (Historical reference, robots for consulting information, automated robots, variable calculation, Web Development, etc) * Geographical information system based on Google Earth   **Mar.2016 to date (5+ year) - UPB – Universidad Pontificia Bolivariana**  **Medellín, Colombia**  Robotic and Develop Teacher – Parcial time |
| **Academic awards** | **One of the best results in the education quality test –ICFES– (scholarship for high education)**  National education ministry, Colombia |
| **Education** | **Jul.2012 to Jul.2018 - BSc in Electronical Engineering**  Universidad Pontificia Bolivariana – UPB –, Colombia  **Jul.2012 to Jul.2018 - BSc in Electrical Engineering**  Universidad Pontificia Bolivariana – UPB –, Colombia |
| **Research team** | **Jan.2016 to Jul.2018 - Automatic and Design (A+D) investigation gruop**  Universidad Pontificia Bolivariana – UPB –, Colombia |
| **Specialized courses** | **Sep.2019 - Advanced analytics & machine learning in python – course 1**  Universidad de Antioquia – UdeA – |
| **International competition** | **May.2017 - RoboRAVE international – robotic worldcup Colombia 2017**  Fire Fighting |
| **Programming languages & power system software** | Python, Visual Basic for Applications – VBA, SQL (SQL Server, Oracle), Matlab, C, Visual Basic, HTML5, CSS3, WordPress  DIgSILENT PowerFactory, PSCAD |
| **Domain languages** | Spanish: Native  English: Intermediate |