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|  | **Andres Felipe Díaz López**  St. 77 No. 49 – 48  050010 Medellin / Colombia  +57 317 884 6390  [pipe0195@gmail.com](mailto:pipe0195@gmail.com)  <https://www.linkedin.com/in/andres-felipe-diaz-lopez-480655152/> |
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|  | **Professional experience** |
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| 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)*   *Intercultural and 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* *Automated software for a specific task on the short-term outage planning process and the trade border registration (Historical reference, robots for consulting information, automated robots, variable calculation, etc)* * *Geographical information system based on Google Earth* |
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| Mar.2016 to date  (5+ year) | **UPB – Colombian University**  **Medellín, Colombia** |
|  | *Robotic and Develop Teacher – Parcial time* |
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|  | **Academic awards** |
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| Dec.2010 | **One of the best results in the education quality test –ICFES– (scholarship for high education)**  *National education ministry, Colombia* |
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|  | **Education** |
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| Jul.2012 to Jul.2018 | **BSc in Electronical Engineering**  *Universidad Pontificia Bolivariana – UPB –, Colombia* |
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| Jul.2012 to Jul.2018 | **BSc in Electrical Engineering**  *Universidad Pontificia Bolivariana – UPB –, Colombia* |
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|  | **Investigation groups** |
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| Jan.2016 to Jul.2018 | **Automatic and Design (A+D) investigation gruop**  *Universidad Pontificia Bolivariana – UPB – Colombia* |
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|  | **Specialized courses** |
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| Sep.2019 | **Advanced analytics & machine learning in python – course 1**  *Universidad de Antioquia – UdeA –* |
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|  | **International competition** |
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| May.2017 | **RoboRAVE international – robotic worldcup Colombia 2017**  *Fire Fighting* |
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|  | **Programming languages & power system software** |
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|  | Python, Visual Basic for Applications – VBA, SQL, Matlab, C, Visual Basic, HTML5, CSS3  DIgSILENT PowerFactory, PSCAD |
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|  | **Domain languages** |
|  | **Spanish: Native** |
|  | **English: Intermediate** |
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