

# CARLOS ARANDA | RESUME

- » **Status:** Master in Computer Science and Engineering (UNAM) - Degree process
- » **Fields:** Computer Vision, Deep Learning, Image Processing, Data Analysis
- » **Tech:** Python, Git, Matlab, JavaScript, HTML, CSS
- » **Loves:** Videogames, Music, Crossfit and Cats



## »»» Summary

I am a Python lover computer science student in process of graduation, working on a stereoscopic computer vision project as thesis. During my studies, I collaborated in 2 congress papers, in the field of computer vision and deep learning, proposing novel methods for solving problems. I am looking for new development opportunities in Artificial Intelligence projects.

## »»» Experience

- |             |                                                                                                                                                                                  |                        |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 2016-2018   | <b>Teacher</b>                                                                                                                                                                   | <a href="#">ITSSNP</a> |
|             | <ul style="list-style-type: none"> <li>» Organizer of the first Basic Science Competition</li> <li>» Academy secretary</li> </ul>                                                |                        |
| 2018 - 2019 | <b>Teacher</b>                                                                                                                                                                   | <a href="#">UTTT</a>   |
|             | <ul style="list-style-type: none"> <li>» Personal tutor of more than 80 students</li> <li>» Development and implementation of an automatic assistance voucher emissor</li> </ul> |                        |

## »»» Education

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|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 2011-2016   | <b>Degree in Chemical Engineering</b>                                                                                                                                                                                                                                   | <a href="#">UNAM</a> |
|             | <ul style="list-style-type: none"> <li>» Thesis: Uso de Algoritmos Genéticos y Redes Neuronales para Control Predictivo en un Reactor Tipo CSTR</li> <li>» Developed a control system for a simulated chemical reactor</li> </ul>                                       |                      |
| 2019 - 2021 | <b>Master Studies in Computer Science and Engineering</b>                                                                                                                                                                                                               | <a href="#">UNAM</a> |
|             | <ul style="list-style-type: none"> <li>» Master Thesis: Sistema prototipo de monitoreo subacuático automático de peces por visión estereoscópica y aprendizaje profundo</li> <li>» Developed of an automatic fish detection and measurement prototype system</li> </ul> |                      |

## »»» Publications and Congress

- |      |                                                                                                                                                                                                                                                                               |                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 2021 | <b>Congress presentation and publication</b>                                                                                                                                                                                                                                  | <a href="#">COMIA 2021</a> |
|      | <ul style="list-style-type: none"> <li>» Presentation of the results of the master project</li> <li>» In publication process at the Research in Computer Science journal</li> </ul>                                                                                           |                            |
| 2021 | <b>Congress presentation</b>                                                                                                                                                                                                                                                  | <a href="#">ENC 2021</a>   |
|      | <ul style="list-style-type: none"> <li>» Presentation of the project: Artery/Vein Classification of Retinal Vessels based on Cellular Automata</li> <li>» Proposed a novel method using neural cellular automata for image clasification applied on medical images</li> </ul> |                            |