ma. fernanda **rodríguez r.**

MULTIMEDIA ENGINEER

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about me

I have worked in different areas like **digital media** such as web design, digital image and video, and 3D modeling, rendering, and animation. However, lately, I have been immersed in the world of computer applications, mainly in areas such as **augmented reality** and **machine learning**, in addition to other areas such as computer graphics, computer vision, image processing, and interaction human-computer.

skills

Code   My main development language is Python, but I have worked with HTML/CSS, JavaScript, SQL and PHP.

Design   I feel comfortable working on web design and 3D graphics from Photoshop, Gimp, and Jekyll to Maya and 3DS Max.

Tools   Some of the tools with which I have already worked as Git, Latex, Vim, Keras, and notebooks.

education

PhD student in Electrical and Computer Engineering   *Campinas — SP, Brazil*

UNIVERSITY OF CAMPINAS — UNICAMP   *Since 2015*

- Thesis: *'Occlusion treatment in objects tracking for augmented reality systems'.*
  Advisor: Prof. José Mario De Martino, Ph.D.

MSc. in Mechanical Engineering   *Campinas — SP, Brazil*

UNIVERSITY OF CAMPINAS — UNICAMP   *2012 — 2014*

- Dissertation: *'Development of a hybrid localization system for autonomous navigation of ground vehicles in a simulated environment'.*
  Advisor: Prof. Janito Vaqueiro Ferreira, Ph.D.

Multimedia Engineering   *Bogotá, Colombia*

NUEVA GRANADA MILITARY UNIVERSITY — UMNG   *2004 — 2009*

- Thesis: *'Development of a virtual an object of learning for management training of animal models in research processes'.*
  Advisor: Prof. Germán Andrés Garnica.

courses & certifications

AGILE METHODOLOGIES

2019	**Gestão Ágil com SCRUM**, Online	*Udemy*

MACHINE LEARNING

2019	**Introduction to machine learning & deep learning in python**, Online	*Udemy*
2019	**Master computer vision opencv3 in python & machine learning**, Online	*Udemy*
2018	**Deep learning and computer vision A-Z: opencv, ssd & gans**, Online	*Udemy*
2018	**Zero to deep learning with python and keras**, Online	*Udemy*
2018	**Redes neurais artificiais em python**, Online	*Udemy*

3DSTUDIO MAX

2010	**Materials, hair, cloth & character rigging**, Bogotá, Colombia	*Autodesk*
2010	**Character modeling**, Bogotá, Colombia	*Autodesk*
2010	**Advertising animation**, Bogotá, Colombia	*Autodesk*

experience

DCA — FEEC, University of Campinas   *Campinas — SP, Brazill*

Researcher   *01/2015 — 06/2015*

- Explore the performance and potential of markerless tracking in Vuforia Augmented Reality SDK.
- Develop a demo on mobile devices, as an auxiliary guide of an underwater oil exploration device.

Parexton The Web Design co.   *Freelance*

Web Designer   *01/2010 — 12/2014*

- Design, development and maintenance of websites with HTML/CSS, JavaScript and PHP.
- Development of SEO strategies with Google Analytics.
- Corporate image design and brand with Photoshop.

languagues

		Listening	Reading	Speaking	Writing
Spanish	*Mother tongue*	Fluent	Fluent	Fluent	Fluent
Portuguese		Advanced	Advanced	Advanced	Advanced
English		Intermediate	Advanced	Basic	Intermediate

publications

2015   RUIZ, M. F. R., De Martino, J., Pelaquim, J. **"Augmented reality applied for the inspection and pre-installation testing of underwater oil production device".** *IV Congreso Internacional de Multimedia*. Bogotá — Colombia.

2015   RUIZ, M. F. R., Ferreira, J. V., Miranda Neto, A., **"Referenced Localization Method Based on the Recognition of Key Objects from a Digital Map".** *IV Congreso Internacional de Multimedia*. Bogotá — Colombia.

2014   RUIZ, M. F. R., Ferreira, J. V., **"Navegação sem condutor, mas segura".** In *Jornal da Unicamp*, page 11. Campinas — SP, Brazil.

2014   RUIZ, M. F. R., **"Desenvolvimento de um sistema de localização híbrido para navegação autônoma de veículos terrestres em ambiente simulado".** Master's thesis, University of Campinas.