fernanda **rodríguez**

MULTIMEDIA ENGINEER

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about me

I have worked in the digital media industry in tasks such as web design and image and video editing. Also, I have experience as an academic researcher, focusing mainly on areas related to augmented reality and machine learning, among others, like computer graphics, computer vision, image processing, and interaction human-computer.

My interests cover from interface design, focusing on UI/UX, to web and mobile applications. Without leaving aside the back-end development. I think that having an understanding of how the full-stack is composed, the whole development process is more fluent. My goal is to become a full-stack developer!

I consider myself a creative, committed, and responsible person. I'm an enthusiast of self-learning, and I feel excited in front of big new challenges.

skills

Code	Python, JavaScript, HTML, CSS, SQL, PHP.
Design	UX, Photoshop, Gimp, Illustrator, Maya, 3ds Max.
Dev	Bootstrap, Jekyll, ReactJS, React Native, NodeJS, Django.
Tools	Command Line, Vim, Git, Markdown, Latex, OpenCV, Pandas, Keras, Jupyter/Colab Notebook, Docker, Scrum, Lean UX.

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. — Software technologies: Python, Keras, Git, Vuforia.

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. — Software technologies: Python, ROS, Gazebo, PostgreSQL, JavaScript, HTML, PHP.

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. — Software technologies: Autodesk Maya, Adobe Flash, ActionScript.

experience

DCA — FEEC, University of Campinas

Campinas — SP, Brazil

Researcher

01/2015 — 06/2015

- Explore the performance and potential of markerless tracking, and develop a demo on mobile devices, as an auxiliary guide of an underwater oil exploration device.
- Software technologies: Vuforia SDK, Android Studio.

Parexton The Web Design co.

Freelancer

Web Designer

01/2010 — 12/2014

- Design, development, and maintenance of websites. Development of SEO strategies, and corporate image design and brand.
- Software technologies: HTML, CSS, JavaScript, PHP, MySQL, Photoshop, Illustrator.

languages

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

courses & certifications

Web Development — Data Science

05-2020 **Python and Django Full Stack Web Developer Bootcamp**, Online *Udemy*
02-2019 **Introduction to machine learning & deep learning in python**, Online *Udemy*
02-2019 **Master computer vision opencv3 in python & machine learning**, Online *Udemy*
04-2018 **Zero to deep learning with python and keras**, Online *Udemy*
03-2018 **Redes neurais artificiais em python**, Online *Udemy*

Design — Agile Methodologies

06-2020 **UX & Design Thinking: Experiência do Usuário nos negócios**, Online *Udemy*
11-2019 **Gestão Ágil com SCRUM**, Online *Udemy*

3D Computer Graphics

10-2010 **Materials, hair, cloth & character rigging**, Bogotá, Colombia *Autodesk*
09-2010 **Character modeling**, Bogotá, Colombia *Autodesk*
08-2010 **Advertising animation**, Bogotá, Colombia *Autodesk*

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.