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<http://www.netfilter.com.br>

My first contact with a computer was when I was 10 and got a Sinclair ZX81 and started programming in Basic. All my family has an IT background so it was kind of easy to figure out which career to follow.

I love programming and using computers as a tool to solve scientific problems as well

*I got a **PhD in Medicine** and a **MSc in Engineering**.*

I love the iOS platform, I believe that Apple and Microsoft are the most important IT companies in the world.

Technical Skills

Likes: objective-c, c++, c, opengl-es, ios
Dislikes: netbeans, cobol

Experience

Jedi Team Member – CipherHealth, New York, NY, USA *March 2015 – Current*
ios, iphone, encryption, medical, scrum, objective-c, swift, afnetworking, hl7, single-sign-on

Responsible for a large iOS Application that provides rounding solutions for Care Providers to improve Hospital Consumer Assessment of Healthcare Providers and Systems (**HCAHPS**).

- Core Data
- UIKit
- Human Interface Guidelines
- Image Processing
- Sound Processing
- Data Visualization for BigData Streams
- HL7 Message processing
- AFNetworking and Asynchronous Core Data

Working with a multi-cultural, remote team with 40+ members.

Director of Software Development – Netfilter, Rio de Janeiro, RJ, Brazil *March 2003 – Current*
c++, python, lua, firewall, squid, ai, objective-c, ios, android, machine-learning

Lead all software development team

Projects:

- Web content filter for PC/Network/ISP
- Blacklist database creation and automatic maintenance.
- iOS Apps - 50 apps for our company and 10 apps for third-party
- Implementation of customized Netfilter solutions to large telecom carriers.
- Project Manager for Appliance Hardware development
- Managed international operations

More than **20 keynotes speeches** in events where content filtering and Network processing was in focus.

More than **200 talks** about Education and new technologies

Participated in two **Senate/House of Representative Hearings** about technology.

Chief Architect

Publications

"Use of SVM Methods with Surface-Based Cortical and Volumetric Subcortical Measurements to Detect Alzheimer's Disease" – **Oliveira Jr. PPM**, et al. DOI: 10.3233/JAD-2010-1322

"Can neuroimaging be used as a support to diagnosis of borderline personality disorder? An approach based on computational neuroanatomy and machine learning", Sato, JR, **Oliveira Jr. PPM** et al. DOI: 10.1016/j.jpsychires.2012.05.008

Senior System Analyst – Heart Institute, INCOR, São Paulo, SP, Brazil
lua, c, c++, xml, cgi, firewall, medical, performance, embedded, hl7

2000 – 2003

Leading the development of medical software for the hospital In charge of bedside patient monitoring software

- Rebelo, Marina ; **OLIVEIRA JUNIOR, P. P. M.** ; Gutierrez, Marco Antonio ; Pilon, Paulo ; Tachinardi, Umberto . vMon-mobile: experiência na integração de monitores de sinais vitais ao PEP utilizando tecnologia de redes sem fio. In: VIII Congresso Brasileiro de Informática em Saúde., 2002, Natal. Anais do VIII Congresso Brasileiro de Informática em Saúde., 2002.
- Rebelo, Marina ; Tachinardi, Umberto ; Gutierrez, Marco Antonio ; Pilon, Paulo ; **OLIVEIRA JUNIOR, P. P. M.** . Presenting Real-Time Monitoring Data on Handheld Computers Using Wireless Networks. In: TEPR2002, 2002, San Francisco. Proceedings of TEPR2002, 2002.
- **OLIVEIRA JUNIOR, P. P. M.** ; Rebelo, Marina ; Pilon, Paulo ; Gutierrez, Marco Antonio ; Tachinardi, Umberto . vMon-mobile provides wireless connection to the electronic patient record. In: SPIE International Symposium Medical Imaging, 2002, San Diego. Proceedings of SPIE International Symposium Medical Imaging, 2002. v. 4685. p. 438-445.
- Tachinardi, Umberto ; Rebelo, Marina ; **OLIVEIRA JUNIOR, P. P. M.** ; Pilon, Paulo . Real time information from bedside monitors as part of a web-based patient record. In: AMIA Symp, 2001, Washington, DC. Proc AMIA Symp, 2001. p. 691-695.

Junior System Analyst – TecGraf - PUC-Rio

1996 – 1999

lua, c, c++, opengl, directx, computer-vision, volume-rendering, mpi

- Software development for MRI and fMRI
- Software development in Lua for Petrobras
- Dicom viewer implementation
- Cluster development in PVM/MPI

I've worked with the creators of Lua programming language

- **OLIVEIRA JUNIOR, P. P. M.** ; GATTASS, Marcelo . Detecção de ativação em ressonância nuclear magnética funcional do cérebro. In: SIBGRAPI, 1997, Campos do Jordão. Proceedings of the X SIBGRAPI'97 Conference, 1997. v. 10.

Education

PhD Medicine – USP

2007 – 2008

ai, svm, neuroscience, machine-learning, supercomputers

Two papers published in Major journals One original method to detect **Alzheimer Disease**

- OLIVEIRA JUNIOR, P. P. M. ; Ricardo Nitrini ; BUSATO, GERALDO ; Buchpieguel, Carlos ; SATO, JOÃO RICARDO ; AMARO JUNIOR, EDSON . Use of SVM Methods with Surface-Based Cortical and Volumetric Subcortical Measurements to Detect Alzheimer's Disease. Journal of Alzheimer's Disease, v. 19, p. 1322, 2010.
- OLIVEIRA JUNIOR, P. P. M. ; Valente, Kette Dualibi ; Shergill, Sukhwinder S. ; Leite, Claudia da Costa ; Amaro Jr, Edson . Cortical Thickness Reduction of Normal Appearing Cortex in Patients with Polymicrogyria. Journal of Neuroimaging, v. 20, p. 46-52, 2010.

MSc Computer Graphics – PUC-Rio

1997 – 1999

lua, opengl, computer-vision, c++, c, volume-rendering, asic, gpu

One original algorithm to speed up volume rendering Full-A grade

OLIVEIRA JUNIOR, P. P. M. ; GATTASS, Marcelo . A Virtual Endoscopic System for Non-Invasive Bronchoscopy. In: 13th Brazilian Symposium on Computer Graphics and Image Processing, 2000, Gramado (RS), Brazil. 13th Brazilian Symposium on Computer Graphics and Image Processing, 2000. v. 13.

Computer Engineer – PUC-Rio

1993 – 1997

c, pascal, uml, c++, prolog, verilog, vhd, ai, statistics, discrete-mathematics, algorithm-design, genetic-algorithms

- 7th highest score of the university at admission
 - 1st highest score at class graduation
 - Average grade 9/10 (GPA: 3.6)
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Projects & Interests**Stack Overflow** – <http://stackoverflow.com/users/417415>

August 2010 - Current

Written 58 answers. Active in ios.

GitHub - PopulationClock – <https://github.com/Netfilter-Com/PopulationClock>

February 2016 - May 2016

python, objective-c, core-animation

Population Clock is an iOS tool for learning about geography and demographics.

Main developer

App Store - iSurf BrainView – <http://itunes.apple.com/us/app/isurf-brainview/id381072423?mt=8>

iSurf BrainView is a Brain MRI tutor based on the MRI automatic segmentation produced by FreeSurfer. FreeSurfer is a software package developed by investigators at the Athinoula A....

main developer layout creation

App Store - Crazy Valet – <http://itunes.apple.com/us/app/crazy-valet/id393158294?mt=8>

Read reviews, get customer ratings, see screenshots, and learn more about Crazy Valet on the App Store. Download Crazy Valet and enjoy it on your iPhone, iPad, and iPod touch.

level design contributed with programming

GitHub - barcode-proof-of-concept – <https://github.com/ppaulojr/barcode-proof-of-concept> March 2015 - January 2016

Proof of concept of the barcode reader It uses only native iOS libraries and it works on iOS 7+

Main developer

GitHub - NFBeeminderHelper – <https://github.com/ppaulojr/NFBeeminderHelper>
objective-c, oauth

November 2014 - January 2015

Helper Class to Integrate Beeminder in any iOS App

Main dev

GitHub - CrazyCorrelation – <https://github.com/ppaulojr/CrazyCorrelation>

April 2015

Code for the blog crazycorrelation.com

Author

GitHub - zung – <https://github.com/ppaulojr/zung>

December 2014 - January 2015

Zung Depression Scale - iOS App to teach ObjC

Main dev

GitHub - tennis_atp – https://github.com/ppaulojr/tennis_atp
python, pandas, sql

March 2015 - September 2015

ATP Tennis Rankings, Results, and Stats

Contributor, Samples Writer

GitHub - adni – <https://github.com/ppaulojr/adni>

December 2014 - April 2015

Alzheimer's Disease Neuroimaging Initiative (ADNI)

Developer

GitHub - atp-followers – <https://github.com/ppaulojr/atp-followers>

December 2014 - January 2015

ATP player's Twitter followers count

Creator

GitHub - NFAlarmLibrary – <https://github.com/Netfilter-Com/NFAlarmLibrary>

August 2015

objective-c, push-notification, apple-push-notifications

iOS Alarm Managing Library

Author

Itunes Apps – <http://itunes.apple.com/us/artist/netfilter/id365306441>

objective-c, c, c++, lua

More than 40 Apps in AppStore with 3 million downloads

Development manager

Power Berry Jump - Free iOS game – <http://www.youtube.com/watch?v=tEJyYdcTEL4>

objective-c, cocos2d-iphone, c++, opengl-es

Power Berry Jump is a new game for your iphone! Have fun!

Software Manager

Writing

Handbook of Imaging the Alzheimer Brain – <http://www.amazon.com/Handbook-Imaging-Alzheimer-Brain-Rosen/dp/1607507927%3FSubscriptionId%3DAKIAIIBINOD46VC3JCLQ%26tag%3Dstackoverfl08-20%26linkCode%3Dxm2%26camp%3D2025%26creative%3D165953%26creativeASIN%3D1607507927>

Escrever código porco ajuda a ganhar este prêmio – <http://www.zeletron.com.br/2011/11/escrever-codigo-porco-ajuda-a-ganhar-este-premio.html>

The International Obfuscated C Code Contest é um concurso em que vence aquele que escrever o código C mais difícil de se ler e que faça uma coisa

Adding iAd in Phonegap Apps – <http://www.zeletron.com.br/2010/07/adding-iad-in-phonegap-apps.html>

How to add iAd to PhoneGap app: (Este post está em inglês para ajudar os desenvolvedores PhoneGap em todo mundo) Step 1) Modify the following function

Desenvolvendo para iPhone sem Objective-C (Parte 2/3) –

<http://www.zeletron.com.br/2010/04/desenvolvendo-para-iphone-sem-objective-c-parte-23.html>

Ok, eu já percebi que você não comprou meu app na loja da Apple, mas tudo bem, você sabe que não escrevo isto por dinheiro e que você não precisa me

Stuxnet o vírus mais sofisticado da história – <http://bugsa.blogspot.com/2010/09/stuxnet-o-virus-mais-sofisticado-da.html>

Crosspost: Zeletron

Pensamentos sobre recrutamento de pessoas espertas | Zeletron –

<http://www.zeletron.com.br/2012/11/pensamentos-sobre-recrutamento-de-pessoas-espertas.html>

How to hire a good programmer

Há algum tempo escrevi sobre o drama de contratar programadores aqui no Brasil. Meu drama continua, estou compilando o melhor (o pior) dos currículos.

Of Neighbors and Wounds: English and Spirituality - Ethika Politika – <https://ethikapolitika.org/2015/04/01/of-neighbors-and-wounds-english-and-spirituality/>

It's not unusual that the Anglophone media has problems parsing Pope Francis. This problem relates in part to a lack of vocabulary to express spiritual concepts or translate accurately what was said...

Code and Catholicism: Beeminding Praying and Integrating Beeminder on iOS | Beeminder Blog –

<http://blog.beeminder.com/rosary/>

Last week Leah Libresco blogged about beeminding rituals. This week we're continuing the Catholic theme with a guest post by veritable Rena...

Liberation Theology in Latin America - Ethika Politika – <https://ethikapolitika.org/2016/01/15/liberation-theology-in-latin-america/>

Fifty years ago the Catholic Church witnessed the blooming of a theological movement known as Liberation Theology. Drawing on the social concerns of the Church, those scholars created a blend of Christianity with Marxism that explain some current pastoral phenomena in Latin America.

Tools

First Computer: TK85 (Sinclair ZX81)
Favorite Editor: XCode