Vinicius Prado da Fonseca

CONTACT INFORMATION	*E-mail:* vncprado@gmail.com	*Mobile:* +1 613 8667744
	BioIn Robotics uOttawa	
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AREAS OF INTEREST

Artificial Intelligence, Artificial Neural Networks, Robotics, Smart House, Wireless Sensor Networks.

ACADEMIC FORMATION

University of Ottawa, Ottawa, ON CAN

PhD, Electrical and Computer Engineering, [ongoing]
- Thesis Proposal: *Tactile sensing and in-hand manipulation*
- Supervisor: Emil M. Petriu, Ph.D.
- Field: Robotics, in-hand manipulation, Sensors.

IME - Military Institute of Engineering, Rio de Janeiro, RJ BRA

Master of Science, Systems and Computing, Jun 2013
- Master thesis: *Location system to support a domestic assistant robot using RSS and ZigBee.*
- Supervisor: Professor Paulo Fernando Ferreira Rosa, Ph.D.
- Field: Smart Environments, Wireless Sensor Networks.

UFT - Federal University of Tocantins, Palmas, TO BRA

Bachelor of Science, Computer Science, December 2010
- Final Project: *People Recognition by the Step Sounds Using ART Type Self-Organizing Neural Networks.*
- Supervisor: Rafael Lima de Carvalho, D.Sc.
- Field: Artificial Intelligence, Smart Environments, Neural Networks.

LATEST PUBLISHED PAPERS

V. Prado da Fonseca, T. E. A. de Oliveira, K. Eyre and E. M. Petriu, "Stable grasping and object reorientation with a three-fingered robotic hand," 2017 IEEE International Symposium on Robotics and Intelligent Sensors (IRIS)

V. P. da Fonseca, D. J. Kucherhan, T. E. A. de Oliveira, D. Zhi and E. M. Petriu, "Fuzzy controlled object manipulation using a three-fingered robotic hand," 2017 Annual IEEE International Systems Conference (SysCon)

FONSECA, V. P. ; Rosa, P.F.F. "Indoors Object Location Protocol in a Smart Home." 2013. 39th Annual Conference of the IEEE Industrial Electronics Society, IECON 2013.

COMPLEMENTARY FORMATION

Parallel Programming with OpenCL e OpenACC. 2013.
National Laboratory of Scientific Computing. (Course Load: 12h).

PROFESSIONAL EXPERIENCE

National Laboratory of Scientific Computing,, Petrópolis, RJ BRA

Researcher 2014-02 - 2014-08
- Research in Massively Parallel Processors
- Research, Programming
- week working hours: 18

Laboratory of Applied Computational Intelligence, Rio de Janeiro, RJ BRA

Web Development 2013-09 - current
- Software Developer, Scheme: full time
- Programming, Web development
- week working hours: 40

Municipal Government, Palmas, TO BRA

CIEE Internship program 2009-03 - 2009-09
- Internship, Scheme: Partial
- Programming, Web development, Data-Base Administration, Linux
- Supervisor: Guilherme Ferreira
- working hours: 30

TA EXPERIENCE (UOTTAWA)	**CEG2136, CSI3131, ELG4913, ELG5161, ELG4912, ITI1100, SEG3125, SEG4910**
LANGUAGES	English - Understands Well, Speaks Well, Reads Well, Writes Well.
	Portuguese - Native.

SOFTWARES AND
HARDWARE SKILLS

Programming Languages:
- C, C++, Python, Java, C#, UNIX shell scripting, JavaScript, SQL, MATLAB, Octave, R.
- ROS (Robot Operating System)
- Arduino Platform, Raspberry Pi platform.
- Git version control system.

CAD and Design:
- Solidworks, FreeCAD, Eagle (PCB design).

Computer Networking:
- Networks (UDP, TCP, ARP, DNS, Dynamic routing), Linux Servers (Apache, SQL, POP, IMAP, SMTP), i2c, USB-serial.
- Wireless Networks (XBee, ZigBee radio modules).

Productivity:
- TeX (LaTeX, BibTeX).
- Libre/MS Office Suites.
- GIMP, Inkscape.

Operating Systems:
- Linux, Microsoft Windows, BSD, e other Unix variants.

CONTACT
REFERENCES

Petriu M. Emil - Ph.D.
e-mail: petriu@uottawa.ca
- Professor, University of Ottawa, Electrical and Computer Engineering
- ◇ 800 King Edward Ave Ottawa, ON CANADA
- ⋆ *Professor Petriu is my PhD advisor.*

Paulo Fernando Ferreira Rosa - Ph.D.
e-mail: rpauloime@gmail.com
Phone Number: +55 21 3820-4197
- Professor, Military Institute of Engineering, Defense Engineering Section
- ◇ Praça General Tibúrcio 80, Praia Vermelha 22290-270 - Rio de Janeiro, RJ - Brasil
- ⋆ *Professor Paulo Rosa was my Masters advisor.*