André Luiz Buarque Vieira e Silva

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DESCRIPTION

Has experience in the field of Physical Simulation (fluids) using Meshless Methods programming in the C and C ++ languages since 2014. Participates in University-Company cooperation project (HP - Hewlett-Packard). He also has experience in High Performance Computing (parallel/distributed programming) using CUDA since this topic is related to his master's dissertation and his graduation work. Obtained very good performance in the disciplines of Intelligent Systems and Digital Signal Processing (when MATLAB experience was obtained), the latter being an elective discipline. Achieved above-average performance in the discipline of Neural Networks (elective).

GOAL

Developer

FORMAL EDUCATION/DEGREE

- 2016 - Present – Master's student in Computer Science. Federal University of Pernambuco, UFPE, Recife, Brazil. Advisor: Veronica Teichrieb.
- 2010 - 2015 – Graduation in Computer Engineering. Federal University of Pernambuco, UFPE, Recife, Brazil. Graduation work: A GPU-accelerated enhanced MPS method for fluid simulation, advisor: Veronica Teichrieb.
- 2007 - 2009 – Secondary Education. Colégio Equipe, Recife, Brasil.
- 2000 - 2006 – Primary Education. Colégio Apoio, Recife, Brasil.

PROFESSIONAL EXPERIENCE

- 2016 - Present – Voxar Labs (CIn/UFPE). Type of contract: Research scholarship, Credit hours: 40, Exclusive dedication.
- 2014 - 2015 – Voxar Labs (CIn/UFPE). Type of contract: Scientific initiation student scholarship, Credit hours: 20, Exclusive dedication.
- 2013 – FAST Aplicativos e Soluções Tecnológicas. Type of contract: Intern, Credit hours: 30. Internship in consultative sales.

LANGUAGES

- Portuguese – Comprehends well, Speakes well, Writes well, Reads well;

- English – Comprehends well, Speakes well, Writes well, Reads well;

BIBLIOGRAPHICAL PRODUCTION

- ASSI, G.; BRINATI, H.; de CONTI M.; SZAJNBOK, M. (To Be Published). Meshless Methods. In *Applied Topics in Marine Hydrodynamics* (pp. 8.1 – 8.38). São Paulo, SP: EPUSP. ISBN: 978-85-86686-89-4.
- **SILVA, A. L. B. V.** ; ALMEIDA, M. W. S. ; BRITO, C. J. S. ; TEICHRIEB, V. ; BARBOSA, J. M. A. ; MORENO, C. A. S. . A qualitative analysis of fluid simulation using a SPH variation. Lisbon. Congress on Numerical Methods in Engineering (CMN), 2015.
- SILVA, V. E. M. ; LINS, C. S. N. R. ; **SILVA, A. L. B. V.** ; TEIXEIRA, J. M. X. N. ; ROBERTO, R. A. ; ARAUJO, C. C. ; TEICHRIEB, V. . Voxar Puzzle: An innovative hardware/software computer vision game for children development. São Paulo. Proceedings of the XVII Symposium on Virtual and Augmented Reality (SVR), 2015.
- ALMEIRA, D. R. O. ; GUEDES, P. A. ; SILVA, M. M. O. ; **SILVA, A. L. B. V.** ; LIMA, J. P. S. M. ; TEICHRIEB, V. . Interactive Makeup Tutorial Using Face Tracking and Augmented Reality on Mobile Devices. São Paulo. Proceedings of the XVII Symposium on Virtual and Augmented Reality (SVR), 2015.

ADITIONAL INFORMATION

- Participates in an University-Company cooperation project, CIn / UFPE – HP (Hewlett-Packard), where the Informatics center of the UFPE is represented by the Voxar Labs. This project enabled the gain of experience with the Git tool and some experience with the Python language.
- Participates in the Navegante project, which investigates particle-based fluid simulation techniques, where the experience with the C / C ++ and CUDA languages was obtained.
- TOEFL Exam score: 96 (out of 120). Taken in 2013.
- FCE (First Certificate in English) by the University of Cambridge.
- Short course taught in XVII Symposium on Virtual and Augmented Reality, 2015, São Paulo: "Development of Android immersive applications using the Google Cardboard API"
- Basic Java & Advanced Java certification by Qualiti Software Processes.
- Class monitor of the "Computational Numerical Methods" and "Paradigms of Computational Languages" subjects during the 2013.1 school semester.
- Curriculum Lattes (portuguese and english versions): *http://lattes.cnpq.br/7142304310764930*