

THIAGO SIQUEIRA PEREIRA

Av Atlantica 2806 apt 1104 Copacabana
Rio de Janeiro, Brazil 22070.000
+55 21 2236.6439

www.impa.br/~tpereira
Email: tspereira2001@gmail.com

EDUCATION

MSC IN MATHEMATICS - MAJOR COMPUTER GRAPHICS 2009

Instituto Nacional de Matemática Pura e Aplicada [IMPA] in Rio de Janeiro
Supported by a CNPQ Fellowship
Advisor Prof. Luiz Velho
AVERAGE GRADE A // GRE Subject Mathematics 860/94%

BSC IN COMPUTER ENGINEERING 2007

Instituto Militar de Engenharia [IME] in Rio de Janeiro
Supported by a Brazilian Army Fellowship
GPA 8.9 , on a 10 point scale

RESEARCH INTERESTS

Image Based Modelling and Rendering Techniques
Methods for Shape Analysis and Representation

PUBLICATIONS

Available online from www.impa.br/~tpereira/publications

Normal Synthesis on RGBN images T Pereira and L Velho 2009
Submitted for publication

RGBN image editing T Pereira and L Velho 2009
Brazilian Symposium on Computer Graphics and Image Processing [SIBGRAPI]

Symmetry-based Completion T Pereira, R Leme, L Velho, and T Lewiner 2009
International Conference on Computer Graphics Theory and Applications [GRAPP]

Edge-search-number in graphs with many automorphisms
R Leme, T Pereira, R Paulino and C Justel 2007.
Brazilian Symposium on Operations Research [SBPO]

TEACHING EXPERIENCE

TEACHER GAVE 2009

Volunteer Math teacher at a preparation course for college entrance exams.
Lectured and designed tests.

TEACHING ASSISTANT IMPA 2009

Course on 3D Graphics System Development.
Assisted students and graded their programming assignments.

COACH IME 2008

Trained teams competing in the ACM ICPC Programming Contest.
Lectured on algorithms and organized training sessions.

TEACHING ASSISTANT Ponto de Ensino 2003»04

Auxiliary teacher at a preparation course for college entrance exams.
Graded exams and assisted students with assignments.

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| PROFESSIONAL EXPERIENCE | PROJECT LEAD Morning Star Consulting 2007 Web Development // Systems Architecture // Timetable Planning Constant Client Contact // Database Modeling // Requirement Analysis PROJECTS _ Web application [ASP.NET, C#, SQL Server] to collect and review transmission lines and electrical substation specifications. <i>Electrical Industry</i> . |
| | SOFTWARE DEVELOPMENT INTERN Chemtech - A Siemens Company 2005»06 Real-time // Multi-tier // Object Oriented Design TCP/IP // Serial Communication // Systems Maintenance Desktop Interface // Databases // Automated Testing PROJECTS _ System [C#] to collect sensor data through an underwater radio link and redirect to monitoring systems. Proof of concept [C#] of a high performance real-time system for monitoring through TCP/IP. <i>Oil Industry</i> . _ Implementation, query optimization and report generation [C#, PL/SQL, Oracle] in a management information system. <i>Chemical Laboratory</i> . _ Maintenance of a system [C++ MFC] for monitoring tension on platform anchor lines in real-time. <i>Oil Industry</i> . _ GPS sensor emulation [C#] and cartographic coordinate conversion for use in a simulation. <i>Research Lab</i> . |
| SKILLS | Focus on Results // Autonomy // Adaptability// Creativity // Teamwork |
| LANGUAGES | ENGLISH fluent // Toefl iBT 109 FRENCH advanced Alliance Française graduate 2003»2005 [Intensive] PORTUGUESE native language SPANISH reading and listening MANDARIN beginner |
| COMPUTER EXPERIENCE | 5-year experience in C++ and 3-year in C# Languages: C, ASP.NET, VB, VB.NET, Java, PL/SQL, Latex Database: SQL Server, Oracle and Informix |
| SOFTWARE | Available online from www.impa.br/~tpereira RGBN Editor. Wrote an interactive OpenGL application to edit images with normals. NIMP Normal Image Plugin. Developing a GIMP plugin to work with normals. |
| AWARDS | Advanced to the World Finals 2008 - ACM ICPC Gold Medal 2007 - Brazilian Finals ACM ICPC Bronze Medal 2006 - Brazilian Finals ACM ICPC Bronze Medal 2003 - Competition of the Brazilian Computer Society 2 nd place Physics 2002 - Illinois - World Wide Youth in Science and Engineering |
| INTERNATIONAL EXPERIENCE | Exchange Student in Illinois, USA 2001»2002 Traveled in 31 countries in America, Europe and Africa |