

PAULO PACHECO

73 Campbell Ave.
Toronto, ON M6P 3T9
Phone/Cel: (416) 534-4074 / 839-3821
ppacheco@cs.utoronto.ca

I – HIGHLIGHTS

- Extremely committed with computing technology innovation. Excellent communication skills.
- 9 years of software development with strong mathematical background.
- MS Visual C++/MFC/OpenGL, Visual Basic, Java, SqlServer/Sybase, Windows 9x/NT, Unix.
- Complex algorithmic solutions.
- Highly motivated worker and continuously improving knowledge.

II – EDUCATION

Since 09/02 UNIVERSITY OF TORONTO

Ph. D. candidate in Computer Science – Computer Vision

09/02 UNIVERSITY OF TORONTO

M. Sc. in Computer Science – Human Computer Interaction, Information Exploration

1992 ESCOLA POLITÉCNICA DA UNIVERSIDADE DE SÃO PAULO (POLI - USP)

B. Sc. in Electronic Engineering

III – PROFESSIONAL EXPERIENCE

Since 09/00 University of Toronto

◆ Instructor

- Responsible for four courses with 50 – 100 students each (Introduction to Computer Programming, File Structures & Data Management, Software Engineering I, Introduction to AI)
- Positions as a Teacher assistant (Data Structures)

7/99 – 12/00 Alias|Wavefront - Toronto

◆ Software Engineer / Researcher

- Implemented a NURBS \leftrightarrow Bezier data converter for Studio
- Developed a 6-DOF 2 handed input prototype using Wacom tablets
- Improved a digital tape drawing aiming the automotive industry
- Organised code repository – code version control system
- MS-Visual C++ / MFC / OpenGL / Perl - Windows NT / Irix / Solaris

1/97 – 4/99 LUCASOFT - Educational Software Research and Development

◆ General Manager / C++ Programmer

- Developed a 25,000 line code product for algebra teaching ("X is = ") – full life cycle
- Created major GUI innovations in cognitive visualisation
- Developed symbolic computing toolbox and animation between steps, to graphically assist students in equation resolutions
- MS-Visual C++ / MFC / OpenGL - Windows 95/98/NT and OOSE Methodology; Rational Rose.

6/97 – 12/97 MGDK & ASSOCIADOS - Consulting Company

◆ **Project Coordinator**

- **BICICLETAS CALOI S. A. (Bicycles)**
 - Performed business analysis. Collected information from the whole company, reporting directly to the president.
 - Made a complete information system, cash flow and cost analysis.
 - Progress/Windows 95 environment
- **SAMCIL (Health Care)**
 - Assisted a team of five consultants to achieve the best information system solution (custom package, SAP or Magnus Datasul)
 - Developed a complete data flow / GUI model in 5 hospitals for a Visual Basic/Win 95 system

9/95 – 6/97 STEFANINI CONSULTORIA E ASSESSORIA EM INFORMÁTICA (System Consulting)

◆ **System Consultant**

- **HEWLETT-PACKARD**
 - General bank system implementation. Client/server system consisted of a Power Builder front-end, receiving data from routines coded in C++
 - 100 programmers, system analysts and support analysts team
 - HP-Fusion Methodology, C++/HP-UX Unix environment
- **A. C. NIELSEN**
 - Improved a system for marketing data collection automation in 3600 cities ("Observer" – presence analysis), with a simple and effective GUI project
 - Maintained and improved a system for form design, visual-tree Boolean construction and keep track of product quantities ("Census" – quantity analysis), with significant GUI innovations
 - Specified a system for Windows-CE to increase the performance of data collecting, replacing a paper form system.
 - Analysis and implementation using Visual Basic and Sybase
 - Did a complete analysis, design and implementation of a real-time TV audience measure system, with real-time data acquisition from 650 domiciles, transmitted via radio-frequency, aiming to feed marketing-related client systems.
 - Borland C++ / OWL, DOS and Windows 3.1/95 environment, OMT Methodology
- **FOLHA DA MANHÃ (Newspapers)**
 - Developed a CYMK alignment automation system for newspaper pressing
 - Developed a technique for scanned image recognition, aiming correct misalignment among crop-marks; image processing using edge detection.
 - Visual Basic and Borland C++ dll's in a Windows 95 environment
- **JOHNSON & JOHNSON**
 - Performed a 20,000 call per month data flow management analysis for a Visual Basic/Win 3.1 system, to provide GUI information to build a commercial Help-Desk information system
- **KIBON (Ice Creams)**
 - Performed a file management control system analysis in a QNX environment

8/94 – 9/95 ALCATEL -ALSTHOM (Electrical and Industrial Automation)
◆ **Software Engineer**

- Real-time multithread automation system integration and development. Customisation of a 300,000 line-code hydroelectric (CHESF) automation system. Modal Methodology
- Trained clients in C programming and system management
- Participated of ISO 9000 implementation as Quality Internal Auditor
- C, OS/2, IBM LanServer and X-25 protocol for remote operations control and communications

IV – SUMMARY AND OTHER INFORMATION

- **Programming Languages:** C, C++ (with OpenGL) - Borland/OWL and MS Visual C++/MFC, Java, VRML, HTML, Pascal, Fortran, Assembly, Visual Basic. Perl.
- **Methodologies:** OOSE, OMT, OOA, Booch (OOD), and Objectory/UML, HP-Fusion.
- **Operational Systems:** DOS, Windows, OS/2, QNX, Unix/Linux.
- **Databases:** Sybase, SqlServer, and Access.
- **Tools:** Corel Draw, Adobe PhotoShop and PageMaker, Macromedia Director, Asymetrix Toolbook, 3D Studio; Rational Rose.
- **Canadian resident since April/1999. Canadian Citizen.**
- **Languages: English, Portuguese, Spanish and Basic French.**

V – SUBMITTED WORK

- Pacheco, P. & schraefel, m. Focus + Context + Orientation with the Phaser Tool. *Proc. of UIST 2002.*
- Pacheco, P. et ali. A 10-DOF Airbrush Tool.

VI – AWARDS AND SCHOLARSHIPS

- 1979** Scholarship from grade 5 to 8
- 1979** Bronze Medallist, City Student Chess Competition
- 1982** Best-grades as French language student, French Alliance Award
- 1983** Scholarship for high-school

References Available