PAULO GUERRA FIGUEIREDO

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Education

Aug 2011 - May 2013 University of Illinois at Chicago, Chicago, IL

- Master of Science in Computer Science Human-Centered Computing
- Fulbright Scholar
- Overall GPA: 4.0/4.0

Aug 2002 - Jun 2008 Universidad San Francisco de Quito, Quito - Ecuador

· Bachelor of Science in Electrical/Electronic Engineering

Aug 2004 - May 2005 University of Illinois at Urbana Champaign, Urbana, IL

One year in an International Student Program at the College of Engineering

Experience

April 2021 – Present **Dorfjungs**, Karlsruhe – Germany / <u>www.dorfjungs.com</u>

Freelance Creative Front End Developer

 Responsible for developing web components, creating interactions and animations, improving performance, and fixing bugs on clients' websites.

April 2017 - January 2021 NIDO Interactive, Quito - Ecuador / www.nidointeractive.com

Co-founder, Creative Technology Director

 Responsible for rapid prototyping, selecting tech stack and supervising the development of web, mobile, ar and vr, interactive installations projects for more than 50 clients.

Sep 2014 - Present Universidad de las Américas, Quito - Ecuador

Assistant Professor, Multimedia and Interactivity Department

 Responsible for introductory and advanced classes teaching programming within the visual arts, multimedia and interactive design context.

Sep 2014 – 2017 átiko7, Quito – Ecuador / www.atiko7.com

Full stack creative developer consultant

- Responsible for developing interactive prototypes and products that generate new user experiences by bridging the gap between digital and analog spaces.
- Mentor (Open Hardware Hackathon & Space Apps Challenge Buen Trip Hub)

Jan 2015 - June 2015 Universidad San Francisco de Quito, Quito - Ecuador

Part Time / Assistant Professor, Multimedia and Interactivity Department

 Responsible for teaching an advanced interactive products class within a visual arts, multimedia and interactivity context.

Sep 2013 - Aug2014 University of Illinois at Chicago, Chicago, IL

Academic Researcher, Learning Technologies Group at the Electronic Visualization Laboratory (EVL)

- Re-designing and implementing a location based tracking system using Bluetooth Beacon (Estimote® and Gimbal®) technology.
- Designed and implemented a Microduino®-based system to remotely control LED lights for a classroom oriented representation of gerbils' foraging behavior data.

Jun 2013 - Aug 2013 Ketai LLC., Chicago, IL / http://ket.ai/

Software Engineer

- Responsible for expanding Ketai's Processing/Android open source software library networking functionalities.
- Responsible for Radio-Frequency Identification applications development.
- Developed software to automate tube-rolling based on information extracted from 3D modeling software.

May 2012 - May 2013 University of Illinois at Chicago, Chicago, IL

Research Assistant, Learning Technologies Group at the Electronic Visualization Laboratory (EVL)

- Developed a physical interface for natural phenomena visualization using Arduino-based tangible robots guided by a Java controlled graphics display and C++ fiducial tracker.
- Responsible for the development of a Java network monitoring application for an Active RFID location tracking system to be used in classroom embodied games and animal tracking projects.
- Performed the analysis of learning technologies' physicality affordances and the relationship between proximity and engagement in classroom-oriented activities (Contribution to AERA 2013 paper submission).

Jun 2009 – May 2011 Universidad San Francisco de Quito, Quito – Ecuador Robotics Research and Development Center

- Installed, programmed and managed Intelitek's OpenCIM system. C++ controlled milling and turning machines as well as three industrial robots that were part of the OpenCIM system.
- Introduction to Robotics class Teaching Assistant and Interface Design Lab Assistant (Fall 2010).
- Robotics Lab Research Assistant, Lab Instructor.
- Undergraduate Students' Research Projects Coordinator. Projects coordinated: USFQ's Underwater ROV and USFQ's Explorer Robot.

Jan 2009 - Jun 2009 Nokia Siemens Networks, Quito - Ecuador

CARE Services Junior Engineer Trainee

 Handled technical support cases and helped with the initial networking equipment setup for Quito's 3G mobile networks as part of the GPRS mobile network CARE team.

Publications

- Alessandro Gnoli, Anthony Perritano, Paulo Guerra, Brenda Lopez, Joel Brown, and Tom Moher. "Back to the future: embodied classroom simulations of animal foraging." In Proceedings of the 8th International Conference on Tangible, Embedded and Embodied Interaction, pp. 275-282. ACM, 2014.
- Nicolás Soria, Daniel Cabrera, and Paulo Guerra. "Design and Construction of a ROV(Remotely Operated Vehicle) Submarine USFQ". In Avances En Ciencias e Ingenierías, 2014.
- Guerra Figueiredo, Paulo. "RemoteBunnies: Multi-Agent Data Mapping Between Physical Environments." In Proceedings of the 8th International Conference on Tangible, Embedded and Embodied Interaction. 2013.
- Paulo Guerra, Brenda López, Alessandro Gnoli, and Tom Moher. "Embedded Phenomena for Inquiry Communities (EPIC), Proximity and engaged participation in WallCology" – Structured Poster Session at the American Education Research Association Anual Meeting 2013.

Academic Honours

- Fulbright Foreign Student Program Grantee (August, 2011- May, 2014).
- Tangible, Embedded, and Embodied Interaction conference Graduate Student Consortium participant (TEI Barcelona, Spain. 2013).
- Summa Cum Laude (Universidad San Francisco de Quito, June 2008).
- Dean's List (University Of Illinois at Urbana-Champaign, Spring 2005).
- Chancellor 's List (Universidad San Francisco de Quito, 2003, 2004, 2005, 2006 & 2008).
- Isaac Newton Academic Excellence Scholarship Award (Universidad San Francisco de Quito, August 2002).

Skills

Technical Skills

- · Web Development
 - CSS, HTML5, Javascript, Wordpress, NuxtJS, ThreeJS
- · Interaction Design
 - Electronics, Motion Control, Tangibles, Sensors, RFID, Arduino, Physical Computing, Virtual Reality.
- SoftwareTools
 - Unreal Engine, Unity, Processing, openFrameworks, Arduino IDE, Ableton Live, PureData, Adobe Suite, LabVIEW.

Non-Technical Skills

- Languages
- Spanish mother tongue.
- Portuguese.
- English.

Other Interests

• Woodworking • Biking • Diving • Capoeira Angola • Music

For additional details about my projects and experience please refer to pauloquerraf.dev