

Policarpo Baquera

Tangible Interaction Designer Architect

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F1-OPT STEM Visa Extension until 2024

Work Experience

EMPTY Dubai / Production Designer

Aug 2018 - Jul 2019 Dubai, United Arab Emirates

- Developed the museographic design of Al Shindagha Heritage Museum conducting client-facing design briefs and presentations focused on exhibition narrative, visitor experience, and architectural finishes
- Coordinated all on-site craftsman and supplier relationships for the renovation project of the existing building
- Designed and oversaw the manufacturing processes of showcase structures and media display installations for the exhibition
- Supervised the electrical, data, and AC systems' project execution

SIC Studio / Production Designer

Sep 2014 - Aug 2018 Madrid, Spain (Intermittent freelancer)

- Responsible for the research and creation of cartographic content for 'Institutional and Extitutional Urban Processes in Madrid' exhibited in the Oslo Triennale 2016 'After Belonging'
- Designed the architectural layout and product selection, curating the merchandising guidelines for the Burgos' Cathedral Souvenir Shop
- Collaborated with an interdisciplinary team of urban designers, anthropologists, and data scientists on 'C40 Reinventing Cities Madrid' studios' 1st prize proposal

Langarita-Navarro Architects / Architect

Sep 2016 - Aug 2017 Madrid, Spain

- Drafted the technical documentation for the Sebastián Diaz Morales' exhibition at the 57 Biennale Arte in Venice
- Designed, budgeted, and oversaw on-site concept and schematic house and office refurbishment projects warranting timeline and execution compliances
- Contributed to two public housing winning proposals (Manzana Verde Málaga and European 14) through research, strategic planning, and content production

Rockwell Group Europe / Interior Designer

2016 Madrid, Spain

AZPML / Architectural Intern

2015 London, United Kingdom

Zehbra Architects São Paulo / Architectural Intern

2013 São Paulo, Brazil

Skills

Design

- Vision and strategy presentations using Adobe Suite / Figma
- 2d/3d detailed modeling in Autocad / Rhino / Grasshopper / SketchUp
- Video and animation design in After Effects / Premiere / Cinema 4D

Prototyping

- Wood and metal machining / laser cutter / CNC router / 3d stereolithography
- Physical computing using Arduino / ESP32 / RaspberryPi
- Interactive systems built in TouchDesigner / Unity3D / OpenFrameworks / MaxMSP
- AR / VR / XR / ABB industrial robots operation
- Programming in Python / C / C++ / OpenCV / HTML / CSS / Javascript / p5.js

Languages

- Spanish (native) / English (TOEFL iBT 109) / Portuguese (fluent)

Education

Carnegie Mellon University / MS in Computational Design and Tangible Interaction Design | GPA: 3.86

Sep 2019 - May 2021 Pittsburgh, PA

Research

- The Spatio-Mediated Assemblage: Distributing Directionals Interactions in the 'Multiplexer' Room

Honors and awards

- "laCaixa" Foundation Merit Fellowship 2018 (Full-tuition scholarship and two-year stipend)
- Frank-Ratchye Fund for Art @ the Frontier 2021
- MSCD Research Grant 2020
- SOA Merit Scholarship 2019-2021

Relevant Coursework

- Intro to Programming and CS (15112)
- Imperative Computing (15122)
- Computer Vision
- Experimental Capture (Golan Levin)
- Multimedia Signal Processing (Jesse Stiles)
- Sensors and Microcontrollers (Scott Hudson)
- Industrial Robotics
- Media Interactive Installations

Teaching Assistant

- Responsive Mobile Environments (Daragh Byrne)

Universidad Politécnica de Madrid / BArch and MArch in Architecture and Urban Design | Top 1%

Sep 2009 - Feb 2016 Madrid, Spain

Thesis

- GeoFront: The Creation of the Neutral State of the Strait of Gibraltar (Awarded Highest Honors)

Honors and awards

- Archiprix Hunter Douglas Award 2017
- Winner YTAA Yount Talent Architecture Award 2016 (Mies van der Rohe Foundation)
- 1st Prize Eduardo Torroja Engineering Award 2016
- ARQUIA Foundation Fellowship 2014
- 1st Prize Cosentino Design Challenge 2014
- Madrid Excellence Scholarship 2009-2013

Teaching Assistant

- M Arch Design Studio X (J. M. Lapuerta)
- B Arch Design Studio I (E. Tuñón and L. Mansilla)

Universidade de São Paulo / Architecture and Urban Studies

Jul 2012 - Jun 2013 São Paulo, Brasil

Honors and scholarships

- Magalhães Scholarship for Exchange Studies in South American Universities 2012

Conservatorio de Música de León / Music Studies: Baroque Recorder

Sep 2003 - Jun 2009 León, Spain