

## Curriculum Vitae

**Henrique Houayek, Ph.D.**  
**Architect and Urbanist, Brazil**

houayek@gmail.com  
Skype: henrique.houayek  
+55.21.96732.5925

- Architect and Urbanist licensed in Brazil with over nine years of professional experience. In charge of multiple award winning projects.
- Over six years of teaching experience at Clemson University and PUC, Rio de Janeiro.
- PhD in Environmental Design and Planning from Clemson University. With theoretical and practical work knowledge in architecture design and theory, urban design, and sustainability.
- Strong abilities in teaching, team coordination, leadership, and work methodology.
- Over the last three years was responsible for a series of projects for the Olympic Park in Rio de Janeiro Brazil, as well as design and coordinate multiple scale national and international projects with AECOM.
- Previously, for two years was the Responsible for the study abroad program in Architecture and Urban Studies: Charles E. Daniel Center for Building Research and Urban Studies in Genoa, Italy: Responsible for the program organization, developing academic curriculum, classes, academic advisor and general semester organization. Responsible for disciplines in Design Studio, Urban Studies, hand drawing and graphic arts, both at undergraduate and master level.

### ACADEMIC TITLES:

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2009 – Ph.D. Environmental Design and Planning; Clemson University, U.S.A.

2006 – Professional degree in Architecture and Urbanism, Federal University of Rio de Janeiro, Brazil

**ACADEMIC EXPERIENCE:**

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**FALL 2014 – Current: Pontificia Universidade Católica Rio de Janeiro Faculdade de Arquitetura (PUC-RJ School of Architecture)**

Five years professional Degree. Adjunct Professor of Architecture, responsible for a Co-Taught fourth year studio overlapping architecture, and landscape.

Academic advisor for final year graduation studio projects.

**2010/2012: Clemson University - Professor in Residence Genoa, Italy;** Professor in residence for the Charles E. Daniel Center for Building Research and Urban Studies in Genoa, Italy: Clemson's study abroad program responsible. Program leader on curriculum and classes' development, overall semester organization, academic advisor, students living and travels; Studio head professor, hand drawings, sketching and graphic arts, and urban studies professor.

FALL 2011: ARCH 851/353: Design Studio; Master and Undergraduate program  
ARCH 616/416: Field Studies and Graphic Expression; Master and Undergraduate Architecture

SPRING 2012: ARCH 851/353: Design Studio; Master and Undergraduate program  
ARCH 616/416: Field Studies and Graphic Expression; Master and Undergraduate Architecture

FALL 2010: ARCH 860/600: Design Studio; Master and Undergraduate program  
ARCH 616/416: Field Studies and Graphic Expression; Master and Undergraduate Architecture

SPRING 2011: ARCH 860/600: Design Studio; Master and Undergraduate program  
ARCH 616/416: Field Studies and Graphic Expression; Master and Undergraduate Architecture

**2009/2010: Lecturer; Clemson University**

FALL 2009: ARCH 841, Design Studio; Master of Architecture  
ARCH 251, Digital Tools, Modeling and Architecture Representation; Undergraduate.

SPRING 2010: ARCH 151, Introduction to design; Undergraduate  
ARCH 251, Digital Tools, Modeling and Architecture Representation; Undergraduate.  
ARCH 151, Digital Tools, Modeling and Architecture Representation; Undergraduate

SPRING 2009 ARCH 252, Design Studio; Undergraduate

FALL 2008 ARCH 251, Design Studio; Undergraduate

SPRING 2008 ARCH 842, Design Studio; Master of Architecture

## PROFESSIONAL EXPERIENCE

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### 03/2013 – Current – AECOM; Rio do Janeiro

Architectural Coordinator: Team coordination, project development of multiple scales: Preliminary studies to construction documents, urban design. Development and management of technical and commercial proposals:

Major projects undertaken:

- LA 2024 Olympic Bid
- Rio 2016 Legacy Plan, Design Coordinator
- USOC House and Accommodation, Rio 2016. Design Coordinator
- Target Center Renovation. Design coordinator
- IBC (International Broadcast Centre) media and broadcast center for the Rio 2016 Olympic Park. Project Architect, Project Coordinator in Charge of entire construction documents.
- Hokkaido Nippon Han Stadium Proposal, Sapporo Japan. Design Coordinator.
- Santa Marta Bolivarian Games Masterplan 2017. Design Coordinator
- Arco do Tietê Project: urbanization of many areas adjacent to the Tietê River, São Paulo. Urban studies, project development and planning.
- Comandante Ferraz Antarctic Station Competition: Responsible for the development of the preliminary study, creation and detailing of the interior areas of the station.

### 05/2010 – 02/2013 – DGAP; Daniel Gusmão Arquitetura e Planejamento, Rio de Janeiro Brazil

<http://www.dg-arq.com/>

Email: [gusmaod@gmail.com](mailto:gusmaod@gmail.com)

Project Architect, Project Coordinator and project consultant, long time collaborator, work with creation, design development, project presentation and construction documents. Active participant on design competitions, proposals, and international office collaborations.

Main Projects undertaken:

- Olympic Park, Rio 2016: International Broadcast Center and Olympic Broadcast Services Office buildings: Responsible for design development and project presentation
- Olympic Park, Rio 2016: Velodrome: Collaborator on design development and project presentation
- Freeway Mall Renovation, Rio de Janeiro: Responsible for design development, presentation and construction documents and details
- Marina Club Residence, Pernambuco: Responsible for design development and project presentation
- OK Mall, Niterói Rio de Janeiro: Responsible for development, presentation and detailing
- Noble Corporation Headquarters, Macae, Rio de Janeiro: Responsible for design development, project presentation, construction documents and details
- Brasdrill Corporation Expansion, Macae, Rio de Janeiro: Responsible for design development, project presentation, construction documents and detailing

**06/2009 – 09/2009 – Desenho Brasileiro, Rio de Janeiro, Brazil**

<http://www.desenhobrasileiro.com/>  
Email: [desenhobrasileiro@desenhobrasileiro](mailto:desenhobrasileiro@desenhobrasileiro)

Main Projects undertaken:

- Itaipu Dam Theatre and Visitors Pavilion, Itaipu, Paraná: Work with project development, presentation and construction documents

**07/2005 – 06/2006 – DGAP; Daniel Gusmão Arquitetura e Planejamento, Rio de Janeiro, Brazil**

<http://www.dg-arq.com/>  
Email: [gusmaod@gmail.com](mailto:gusmaod@gmail.com)

Creation, Design development, project presentation and construction documents

Main projects undertaken:

- Clinic and Retail Store, Niterói; Rio de Janeiro: Responsible for design development, project presentation, construction documents and details
- Shopping Osasko, São Paulo: Responsible for design development, project presentation and initial details
- Shopping Tamboré, São Paulo: Responsible for design development, presentation and detailing
- Projeto Iguatemi Salvador, Bahia: Responsible for design development and project presentation
- Rede Globo tower, São Paulo: Responsible for design development and project presentation

## **PUBLICATIONS**

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**Published Book:** *The Animated Work Environment: An Architectural-Robotic System for a Digital Society*. VDM Verlag; June, 2009. ISBN-10: 3639162579

**Architectural Record:** PhD Project published in the article “*Control Freaks: Pervasive sensing and Interactive Buildings*”, Architectural record March 2010

### **Doctoral Thesis:**

*The Animated Work Environment: A Vision for Working Life in a Digital Society*. Clemson University, 2009.

### **Published Papers**

- "AWE: An Animated Work Environment for Working with Physical and Digital Tools and Artifacts." Houayek, H, Green, K. E., Gugerty, L. Walker, I. D. and Witte, J. In Journal of Personal and Ubiquitous Computing [JPUC], June 2014, Volume 18, Issue 5, pp. 1227-1241.
- *A Novel Approach to Rethinking the Machines In Which We Live: A Multidisciplinary Course in Architectural Robotic*. Apoorva Kapadia, Ian D. Walker, Keith Evan Green, Joe Manganelli, Henrique Houayek, Adam M. James, Venkata Kanur, Tarek Mokhtar, Ivan Siles, and Paul Yanik. IEEE Robotics and Automation Magazine 2013

- *“Architectural Robotics”*: An interdisciplinary course rethinking the machines we live in. A. Kapadia, I. Walker, K.E. Green, J. Manganelli, H. Houayek, A.M. James, V. Kanuri, T. Mokhtar, I. Siles, P. Yanik. Robotics and Automation (ICRA), 2010 IEEE International Conference on; 06/2010
- *Towards the Future of Collaboration: Two Cases on the Design of Architectural Robotics*. H. Houayek and P. Yanik, UBICOMP 09 Miami, 2009
- AWE: A robotic wall and reconfigurable desk supporting working life in a digital society Intelligent Robots and Systems, 2009. IROS 2009. IEEE/RSJ International Conference
- *The Animated Work Environment: A Design-Research Exemplar Supporting Social and Virtual Collaboration in an Increasingly Digital Society*. K. E. Green, L. J. Gugerty, J. C. Witte, I. D. Walker, H. Houayek, J. Rubinstein, R. Daniels, J. Turchi, M. Kwoka, I. Dunlop, and J. Johnson. In the Proceedings of Design Science Research in Information Systems and Technology DESIRIST 2008, Atlanta: 287-292.
- *The AWE Wall: A Smart Reconfigurable Robot Surface*. H. Houayek, M. Kwoka, J. Johnson, I. Dunlap, I. D. Walker, K. E. Green. In the Proceedings of International Conference on Intelligent Environments IE08, Seattle, Washington, July 2008.
- *AWE: an animated work environment for working with physical and digital tools and artifact*. Henrique Houayek, Keith Evan Green, Leo Gugerty, Ian D. Walker, James Witte. Personal and Ubiquitous Computing (Impact Factor: 1.13). DOI:10.1007/s00779-013-0731-6
- *Design, Construction, and Testing of a Novel Robotic Workstation*. J. Johnson, M. Kwoka, H. Houayek, I.D. Walker, and K.E. Green In the Proceedings of the Fourth International Conference on Computational Intelligence, Robotics, and Autonomous Systems, Palmerston North, New Zealand, November 2007, pp. 155-160.

### Conferences and Presentations

- *Rio 2016 Olympics: sustainability and Legacy*. Parsons The New School for Design, RJ, 2015.
- *Rio 2016 Olympics: Games and Legacy*, Southern Illinois University School of Architecture, RJ, 2014.
- *Rio 2016 Olympics*: Columbia University Business School, RJ, 2014
- *Sustainability Plan for 2016 Olympics*: Pace University and PUC Business school, RJ, 2014
- *Genoa, Living at the Historical City and Studying at the Charles E. Daniel Center*. Clemson, October, 2011
- *Towards the Future of Collaboration: Two Cases on the Design of Architectural Robotics*. UBICOMP 09 Miami, September 2009.
- *An Animated Work Environment*", ACSA 2009 Annual Meeting, Portland, Oregon.
- *The Animated Work Environment: A Vision for Working Life in a Digital Society*; Doctoral Consortium, Design Science Research in Information Systems and Technology DESIRIST 2008, Atlanta: 429-430
- *An Animated Work Environment Supporting Working Life in a Digital Society*, ACADIA 2007: EXPANDING BODIES in Art, Cities and the Environment; Halifax, Nova Scotia.

## AWARDS AND HONORS

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- **2013 – SKETCHES 2013** – Drawing exhibit at the Fordham University Center Gallery, Lincoln Center, Manhattan
- **2012 – Fourth Place** - *Urban Collective Modular Building Design Challenge 2012*, Queensland, Australia
- **2011 – First Place** - *Olympic Park Competition, Rio de Janeiro*. AECOM + DG Arquitetura e Planejamento
- **2011 – Honorable Mention** - *Olympic Port Competition, Rio de Janeiro*. DG Arquitetura e Planejamento and Girimum Architects
- **2008 – Third Place** – *International Designer’s Work Competition 2008*, Professional Category
- **2006 – “Opera Prima” Selected** – Final graduation project: *Revitalization of the Central Station Area*
- **2006 – First Place** – Architecture Competition FAU/ UFRJ, Design for *ONG Renascer*
- **2006 – Honorable Mention** – National Competition for urban ideas for the Rocinha Complex. In collaboration with architect Flávio Ferreira
- **2004 – Honorable Mention** – National Competition for Ideas on Housing – Brazil Institute of Architects and e Caixa Econômica Federal (Federal Economic Bank).
- **2002 – Grafinnova 2002**: Drawing Exhibit, Ostrobothnian Museum Vaasa, Finland

## ABILITIES AND COMPETENCIES

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### Languages

Portuguese (Native), English (Fluent), Spanish (Advanced), Italian (Intermediary)

### Computer Knowledge

AutoCAD, 2D and 3D, Sketch Up, V-Ray, Rhinoceros, 3d Modeling and prototyping, full Adobe Package, Video Editing

### Professional Courses

2004 – Construction with Bambu, PUC/Rio de Janeiro.

2005 – Photography, Kodak.

### Other interests

Hand drawing, graphic arts, rowing, aikido

Rio de Janeiro, December 2015

