

JOSHUA AUGUSTUS BACIGALUPI

275 Grand View Ave. #204
San Francisco, CA 94114
mobile 415.265.4848
augustus@iforam.org

current as of September 2011

EDUCATION

City College of San Francisco, '07-'09 (4.0)

Electronics 101A – 104A; analog circuits

Electronics 101B – 103B; digital circuits

Circuit Analysis; UC Credit Course

Java Programming 100 - 102; through abstract data structures; UC Credit Courses

San Francisco State University, SF, Fall '08 (4.0)

One Semester of MFA in Conceptual Information Arts program

University of Colorado, Denver, '94-'97 (3.6)

Masters of Architecture

Undergraduate Thesis, UCSB, '93 (4.0)

Used Excel to compare the thermodynamic properties of a conventional home with an environmental home

Upper Division Series in Physical Chemistry, UCSB, '93 (3.33)

Thermodynamics, Chemistry, and Quantum Mechanics

University of California, Santa Barbara, '88-'93 (3.0)

Bachelors of Environmental Sciences

PROFESSIONAL EXPERIENCE

PRACTICE

[Institute for Augmenting Minds](#), January '08-present

founder

[BACIGALUPIWORKS](#); San Francisco, California, July '02-present

principal: client relations, design, project and firm management

Richard Zlatunich, AIA; San Jose, California, December '01-December '02

head designer, project management; designed [R. Zlatunich's home](#).

Reseutek Design Group LLC; Denver, Colorado, May '00-July '01

head designer, project management; received awards for [Denver District One Police Station](#)

Hauser Architects; San Francisco, California, August '98-December '99

design development, construction docs. and CA; interaction with DBI, DPW and Utilities

Studio Fera; Genova, Italy, July '97-July '98

design, rendering and marketing

SELECTED COMPETITIONS

[Interfaith Sacred Space Design competition](#); ideas competition, Winter '04

team members: Brother Joe Aspell

[World Trade Center Memorial international competition](#); New York, NY, Summer '03

solo

2G Mies Van der Rohe Foundation Headquarters international competition; Barcelona, Spain, Winter '98

team members: Dott. Arch. Federica Goffi

Luce and Ombre industrial design competition; Milano, Italy, Fall '97

team members: Dott. Arch. Federica Goffi

RELATED ORGANIZATIONAL ACTIVITY

[VLAB](#) Volunteer, August '11-present

aid in organizing meeting venue, present potential meeting topics for group consideration

Organizer of SF Philosophy group, January '08 – July '09

organize meeting venue and topics, mediate meeting discussion

Head Coordinator of UC Denver, College Arch. & Planning Lecture Series, August '95-May '97

managed team in coordination and promotion of lecture series with a budget

Founding member of the Environmental Studies Student Association at UC Santa Barbara, September '92-June '93

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PRESS AND AWARDS

Press; Fredell Residence; role: All aspects of project

[SF Chronicle, May 9, 2010](#)

Awards; Denver Police Department District Station No. 1; role: Head Designer

American Institute of Architects, Western Mountain Region, Merit Award

American Institute of Architects, Denver Chapter, Merit Award

Colorado Construction Top Projects; Top Public Projects

F.W. Dodge Annual Hard Hat Awards, The Best Projects; Hat Outstanding Public Project

TEACHING

San Francisco State University; Creative Arts Dept. August '08 – December '08

Graduate Assistant for CA 101: teaching undergraduates basic design theory, maintaining grade book for 100 students

San Francisco State University; Creative Arts Dept. August '08 – December '08

Teaching Assistant for CIA 410 and 412: assisting professors in teaching both theory and technical media skills

Clemson University; Architecture program, Genova, Italy, July '97-July '98

Lecturer: gave lectures to architecture students regarding the importance of history in design

SCIENCE AND TECHNOLOGY

SELECT PAPERS AND ARTICLES

Human EEG Responses to a Conditioned Stimulus Reward Delay; D.M. Levi lab, UC Berkeley, Summer/Fall '07
poster submitted to Neuroscience Fall '07; [PDF](#)

Synthetic Cognition; Implementing a Testable Hypothesis; draft manuscript

research proposal for implementing synthetic cognition

see [publications page](#) at Iforam.org for summaries

SELECT LECTURES AND SYMPOSIA (Attended)

[California Cognitive Science Conference](#); UC Berkeley, April '11

current research in cognitive science

SIGGRAPH; Special Interest Group Graphics and Interactive Techniques, August '08

Los Angeles Convention Center, L.A.

JavaOne Conference, May '08

Moscone Center, San Francisco

[The Singularity Institute for Artificial Intelligence](#); San Francisco, '07

current research and commentary on artificial intelligence and its potential cultural impacts

[Cognitive Computing](#); UC Berkeley, May '07

current research and applications of cognitive computing

[Almaden Institute](#); IBM Almaden Research Center, May '06

current research and applications of cognitive computing

SELECT BIBLIOGRAPHY (alphabetical by last name)

James Anderson; *An Introduction to Neural Networks*, 1995

Gregory Bateson; *Mind and Nature*, 1979

Ludwig von Bertalanffy; *General System Theory*, 1969

Rodney A. Brooks; *Intelligence without representation*, *Artificial Intelligence* 47 (1991) 139-159

Terrence W. Deacon; *Shannon-Boltzmann-Darwin: redefining information*. Part 1.

Alexander Fingelkurts and Andrew Fingelkurts; *Mapping of Brain Operational Architectonics*, *Focus on Brain Mapping Research*, 2005, pp. 59-98.

Alexander Fingelkurts and Andrew Fingelkurts; *Operational Architectonics of the Human Brain Biopotential Field: Towards Solving the Mind-Brain Problem*, *Brain and Mind*, 2001, V.2, No.3, p.261-296

Alexander Fingelkurts and Andrew Fingelkurts; *Probability Interrelations between Pre-/Post-Stimulus Intervals and ERD/ERS During a Memory Task*, *Clinical Neurophysiology*, 2002, 113(6), 826-843

Jeff Hawkins; *On Intelligence*, 2004

E. Roy John; *The neurophysics of consciousness*, *Brain Research Reviews* 39 (2002) 1-28

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Joseph LeDoux; *Emotion: Clues from the Brain*, Annu. Rev. Psychol., 1995, 46:209-35
Joseph LeDoux; *Synaptic Self*, 2002
Marvin Minsky; *The Society of Mind*, 1985
John Searle; *Mind*, 2004
S. Murray Sherman and Ray W. Guillery; *Exploring the Thalamus*, 2001
Marshall Shuler & Mark Bear; *Reward Timing in the Primary Visual Cortex*, Science, Vol. 311, 17 March 2006
Adrian Thompson; *Artificial Evolution in the Physical World*, Evolutionary Robotics: From Intelligent Robots to Artificial Life (ER) 97, T.Gomi(Ed.), pp 101-125. AAI Books, 1997

SELECT SOFTWARE SKILLS

CADD

3D Studio MAX, AutoCAD, FormZ, REVIT, and SketchUp

COMMUNICATIONS DESIGN

After Effects, ImageReady, Illustrator, InDesign, Photoshop, and Premiere Pro

OBJECT ORIENTED PROGRAMMING

JAVA, Max 5 (Jitter), Processing

OFFICE

Excel, PowerPoint, and Word

MICROCONTROLLERS

PBasic and Wiring

SIMULATION, IMPLEMENTATION, AND ANALYSIS

MathCad, MatLab, Multi-Sim 7, Verilog, and VHDL

WEB DESIGN

CSS, Dreamweaver, Flash, and HTML

SELECT HARDWARE SKILLS

MICROCONTROLLERS

Arduino and Parallax

CURCUITS

Curcuit design, assembly, and testing; CPLDs and FPGAs