

Kipp Bradford

Curriculum Vitae 2011

1. Name, position

Kipp Bradford
Senior Design Engineer and Lecturer
Brown University School of Engineering

2. Home address

Pawtucket RI

3. Education:

Brown University, Providence, RI
Sc.M. Biomedical Engineering, May 1996
Research: Continuum Modeling of Biological Tissue, Bioadhesion, Medical Device Design
Thesis title: "Design and Development of a Novel Remote Sensing Microtensiometer"
Course work in continuum solid mechanics and biomaterials.

Brown University, Providence, RI
Sc.B. Biomedical Engineering, May 1995
Research Projects: Robotics and Artificial Intelligence, Bioinstrumentation/Medical Devices
Course work in mechanical engineering, electrical engineering, and biomedical engineering

4. Professional appointments:

Technical Advisor and Online Technical Editor, MAKE Magazine

Principal, The Kippworks

Fellow, Philadelphia University College of Design, Engineering, and Commerce

Chair, Rhode Island Entrepreneurship Faculty

5. Completed Publications

Bare Metal Game Design, Make Magazine: 10, May 2007, Page 137; with Brian Jepson

Robot Localization and Control, Circuit Cellar Magazine, Issue 188, March 2006, Page 36; with Ethan Leland and Chad Jenkins of the Brown University Artificial Intelligence Lab. Won *Honorable Mention* in Freescale Zigbee contest.

6. Research Grants:

RI STAC EPSCOR Grant Awardee and Principal Investigator (2008):
“Launching Rhode Island as the R & D Nexus for Next Generation Hearing Devices”

7. Service

Brown University ALANA Mentor (2003-2010)

Member: AS220 Board of Directors (2006-present)

Member: The Steel Yard Board of Directors (2007-present)

FIRST Robotics competition advisor: Moses Brown (1993) and Lasalle High School (2004).

Co-Founder and organizer of Revolution By Design and Maker Faire Rhode Island (2009-present)

Mentor, Betaspring Startup Accelerator (2009-present)

NSF Grant Panel (2011)

8. Academic honors, fellowships, honorary societies, listed chronologically.

George F. Main award, Brown University Engineering, May 1995.

9. Teaching:

ENGN 1000, Brown University, (2008-)
Capstone Engineering Design

ENGN 1930v, Brown University, (2008 -)
Social Entrepreneurship and Design

ENGN 1010, Brown University, (2008 -)
Intro to Entrepreneurship

ENGN 1970-1971, Brown University (2009-2010)
Senior Biomedical Engineering Capstone Design

ENGN 1930z, Brown University, (2010-)
Robotics

Fab Academy at AS220 Labs (2009)
AS220/MIT Center for Bits and Atoms version of MIT MAS863.09,
“How to make almost anything”

10. Patents and Applications:

US Pat. 6315631, Method of generating dual track sounds for an electronic toy

US Pat. 6183337, Electronic toy and method of generating dual track sounds for the same

US Pat. 6168157, Electronic body-bending game

App. No. 20090076825, Method of Enhancing Sound For Hearing Impaired Individuals

App. No. 20090076816, Assistive Listening System With Display and Selective Visual Indicators
for Sound Sources

App. No. 20090076804, Assistive Listening System With Memory Buffer for Instant Replay and
Speech to Text Conversion

App. No. 20090076636, Method of Enhancing Sound for Hearing Impaired Individuals

App. No. 20090074216, Assistive Listening System With Programmable Hearing Aid and
Wireless Handheld Programmable Digital Signal Processing Device

App. No. 20090074214, Assistive Listening System With Plug In Enhancement Platform and
Communication Port to Download User Preferred Processing Algorithms

App. No. 20090074206, Method of Enhancing Sound for Hearing Impaired Individuals

App. No. 20090074203, Method of Enhancing Sound for Hearing Impaired Individuals

App. No. 2010229585, Modular Air Conditioning System

11. Lectures:

Guest Lecture, University of Massachusetts, Lowell, Computer Science Department, Nov 29
2006:

“Inside Santa's Workshop: What's this DSP Doing In My Elmo? Or, the secrets of rapid
product design from toys to medical instruments”

Guest Lectures, Brown University Engineering, Engin 3, 2004 – 2010: “Design Engineering”

Guest Lecture, Brown University Engineering, Engin 130, 2005: “Mechanical Design Engineering”

Guest Lecture, Brown University Engineering, Engin 2, 2008: “Design Engineering in Practice”

Citizen Robotics Panel, IJCAI, 2009

Future of Transportation Panel. Better World By Design (BxD) 2009

Knowledge Retention Panel, Rhode Island Knowledge Retention Symposium, 2009

Invited Speaker, Philadelphia University, January 25, 2011
Design and Entrepreneurship

Invited Speaker, Girard College, January 25, 2011
Entrepreneurship and the creation of value

Invited Speaker, Brown Women in Business, March 9, 2011
Innovation and opportunities - the impact of economic cycles on emerging businesses

12. Other Awards:

2008 Rhode Island “40 under 40”, Providence Business News Award

2008 “10 People Changing Providence”, Providence Monthly Magazine

13. Other Activities

Member, Extraordinary Rendition Marching Band

Semi-Professional Road Cyclist