

Justin Downs

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Education:

I>T>P NYU, New York, New York (2006-2008)
classes: Every bit you make (network security), Computational cameras(vision tracking),
Networked objects, Computers for the rest of you, Computational form(open
GL),Collaborative mesh networking(xbee), Analog Circuits.
BFA, School of Visual Arts, New York, (1998-2002)
New York City College of Technology, Brooklyn, New York (2005)
Modern Welding School, Schenectady, New York (2006)

Certifications:

Welding:

D.O.T.(department of transportation New York) Certifications:
Certified SMAW (shielded metal arc weld) vertical position 1/8th" to unlimited.
AWS (American welding society) Certifications:
GTAW (gas tungsten arc weld) vertical position.
SMAW (Shielded metal arc weld) vertical and overhead positions, 1/8th" to unlimited
FCAW (flux core arc weld) vertical and overhead positions, 1/8th" to unlimited
ASME (American society of mechanical engineers) Certification:
6G Schedule 40 pipe with E6010 root, E7018 cover pass

Grants:

NYSCA
"Electronic Media & Film" (2008)

Work Experience:

Construction, general contractor, electrical, welding ect. (1998-20?)
Transformasium (2007-2008): Design consultant/backend web programming
Starn Twins (2008): arc lamp (Pittsburgh)
David Byrne (2008): Playing the Building (Engineering systems
design/Fabrication)
Plum Design group (2007): consultation
Big Ripple Multimedia (2007): systems design/engineering and hardware
development
Amorphic Robot Works (2007): A tree for anable basin (Engineering
design/Fabrication/aluminum welding)
Amorphic Robot Works (2007): Design/Engineering consultant (inflatables)
David Byrne (2005): Playing the Building (Engineering systems
design/Fabrication)
Recycle a Bicycle (Brooklyn) (2002-2005): volunteer bicycle mechanic
Spokes and strings (NYC Bikes) (2004): General repair/ bicycle mechanic
Starn Twins (2002-2005): Design/Fabrication and Production Management for
the projects: Attracted To Light: CRT sphere, The Carbon arc lamp. Wall mounts
for the Umbraterre series. Maintenance/repair/redesign for: Gravity of Light:

Gravity of light and the illuminated manuscript. Engineering consultation and fabrication for prototype cover of the Monacelli Press book.

Luca Bovoli (2001,2003-2004): technical consultation/fabrication: Flying: Practical Training for Beginners, Various works

Jeane Silverthorne (2004): Fabrication: New Work 2004

Rene Pierre Allain (2001-2002) Welding studio: Fabrication for the Darger exhibition at the New York folk museum.

School of visual arts (2000-2002) head of the foundation shop technician/safety

Shows/Projects:

<I.T.P> Show New York NY (2006, 2007, 2008)

Interactivos at Eyebeam "watch what you are" (2008)

office ops " All I Know is That I don't trust him" Brooklyn NY (2004)

Metamalgamate Manual productions Cincinnati, Ohio (2003)

D.U.M.B.O Arts festival "The Living Room" Brooklyn New York (2002)

Cooper Union, (2002)

Shows School of Visual Arts New York (1998-2001)

Talks:

Double Take,

EyeBeam (2008)

The Personal Range Finder ,

Avelient BioPharm group (2007)

Public Media:

Publications:

Tools of the Trade: Justin Downs on "Playing the Building",

Rhizome at the New Museum (2008)

The Personal Range Finder,

Avelient BioPharm group (2007)

Write up:

Sola-System

Make Magazine

by Collin Cunningham | May 13, 2008

Play the building:

"David Byrne's New Band, With Architectural Solos"

By RANDY KENNEDY

New York Times

Published: May 30, 2008

"Actuators Strike A Musical Note"

Joseph Ogando, Senior Editor

Design News, June 2, 2008

The Personal Range Finder:

Rocket Boom December 19, 2006
TVchannel Kugtura
23:59 21.12.06 3@грузка. 21 декабря 2006
Новости культуры

Arc Lamp:
New York Public Library
“SIBL Helps Shine Light On Art”
spring 2005 article

WORKSPACE
“In the Garage, With Heat, Light and Snowflakes”
By RANDY KENNEDY
New York Times
Published: September 2, 2007

Metamalgamate
The Cincinnati
Enquirer august 14,
2003

Artspike magazine
august 2003

Downtowner
August 2003

The living Room
Zing magazine
2002

“Seniors Antics Anger, Amuse”
By Ellen Nakashima
The Washington Post
1997

Mig, Tig, Arc(stick), oxy acetylene
Metals: steel, aluminum, cast iron, brazing copper/brass.
Electrical:
Household and high voltage.

Wood:
Woodshop experience all tools (table saw, planer, router ect.)
Metal:
Fabrication all tools (drill press, acetylene torch, grinder, ect.)

Skills:

Welding:

Fabrication:

Lathe
Basic millwork

Java, j2me and JavaScript, C and C++,
PHP/msql and maxMSP/jitter some Unix

Analogue and Digital
microcontrollers (AVR, bx-24, arduino, teleo, pic)

Two stroke
Drivetrains
ect.

Machining:

Programming:

Electronics:

Motors + pneumatic: