

**Justin Downs**

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**Email:** justindowns@johnhenryshammer.com

**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 1/8<sup>th</sup> to unlimited.

*AWS (American welding society) Certifications:*

**GTAW** (gas tungsten arc weld) vertical position.

**SMAW** (Shielded metal arc weld) vertical and overhead positions, 1/8<sup>th</sup> to unlimited

**FCAW** (flux core arc weld) vertical and overhead positions, 1/8<sup>th</sup> 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)

**Write up/publications:**

**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**

(there were a lot, these are the two I liked the most)

"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

## **Skills:**

### **Welding:**

Mig, Tig, Arc(stick), oxy acetylene

*Metals:* steel, aluminum, cast iron, brazing copper/brass.

### **Electrical:**

Household and high voltage.

### **Fabrication:**

*Wood:*

Woodshop experience all tools (table saw, planer, router ect.)

*Metal:*

Fabrication all tools (drill press, acetylene torch, grinder, ect.)

*Machining:*

Lathe

Basic millwork

### **Programming:**

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

### **Electronics:**

analogue and digital

*microcontrollers* (bx-24, arduino, ATMEL, teleo, pic)

### **Motors + pneumatics:**

drivetrians ect.