

# JOSH K. MARSH

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## EDUCATION

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**Ph.D. Theatre and Performance Studies** December 2015

University of Georgia, Athens, GA

Dissertation: “It Works Like Magic: Technology, Stage Magic, & Performance” Dir. Dr. David Saltz

Area of Specialization: Digital Media and Performance

Areas of Concentration: Popular Entertainment, Internet Culture, Making & Hacking, Cognitive Science

**MFA Dramatic Media** May 2011

University of Georgia, Athens, GA

Thesis: “Alternatives to Pixar: Producing Stylized, Non-Photorealistic Animation” Dir. Mike Hussey

Area of Specialization: Character Animation

**BA English** December 2005

University of Georgia, Athens, GA

## PROFESSIONAL EXPERIENCE

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**Deluxe Financial Services Development** Atlanta, GA

*DevOps / Backend Development*

September 2015 – Present

- Develop applications for monitoring performance metrics (data visualization). Written in Ruby / Javascript.
- Manage databases (PostgreSQL and Microsoft Server SQL) and integrate into applications.

**Hack a Day** [www.hackaday.com](http://www.hackaday.com)

*Editor, Community Manager*

2014 - 2015

- Responsible for day-to-day editing and scheduling of articles written by other Hack a Day writers and contributors.
- Provided a point of contact and engagement with the Hack a Day community.
- Managed social media accounts (Twitter, Facebook).

*Staff Writer* 2013 – 2014

- Curated content for the main news site that features cutting-edge inventions, hacks, DIY creations, etc.
- Over 200 articles written.
- Created two original columns: “Hacking and Philosophy”—which examines philosophical issues associated with hacker culture—and “Adventures in Hackerspace”—which features in-depth stories about Makerspaces: their inception, their members, and their histories.

**Michael Oliveri Studio**

*Designer, Fabricator*

2013 - 2015

- Worked collaboratively to develop both art pieces and commercial products.
- Operated machines to fabricate production pieces, including CNC Router and Laser Cutter (both industrial grade).

**Hackyard Athens**

Athens, GA

*Director*

May 2014 – May 2015

- A non-profit makerspace co-founded with other members of the FourAthens community in downtown Athens to provide a collaborative space for creative projects for local startups and individuals.
- Developed and currently teach courses for non-engineers in electronics design, microcontrollers (Arduino, Sparkcore, etc.), and 3D printing.
- Provided consultation for local businesses looking to implement new technologies.
- Provided 3D printing and other tech services to create unique items for businesses: trophies for FourAthens's annual award ceremony; name tags for YPN (Young Professionals Network).

**Roundsphere**

Athens, GA

*Product Designer*

November 2014 – December 2015

- Provided CAD work and 3D printed models of a proprietary product for mass-production. Developed with Autodesk Inventor (CAD), Slic3r (3D slicing program), and a custom-built Mendel Max 3D printer.

**Ichor**

Athens, GA

*Design and 3D-Printed Fabrication*

November 2014

- Provided rapid development and production of five custom-designed electronics enclosures for a wearable vital sign monitoring system.

**Pylon**

Athens, GA

*Design and 3D-Printed Fabrication*

September 2014

- Developed custom enclosures for RFID (Radio Frequency Identification)-based product.

**IS3D**

Athens, GA

*Animator*

August 2010 - May 2012

- Provided 3D models and texture design for virtual environments and video games.

**Drowning Monkey Studio**

Atlanta, GA

*Character Animator*

October 2010 - January 2011

- Designed and developed animation for player characters in *Dungeon Crawlers*, an iPhone and iPad game.
- Primary development platform was Autodesk Maya (animation) and Unity3D (game engine).

**Hargant Entertainment**

Boston, MA

*Lead Animator*

September 2009 - December 2009

- Created and directed several minutes of character animation as well as technical animation for a feature film and accompanying commercial spot.

**DESIGN FOR LIVE EVENTS / THEATRE**

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***Bray's Plays***

Athens, GA

*Electronics Designer*

February 2014

- Designed and constructed portable, battery-powered hanging light fixture prop driven by a microcontroller with multiple functions and trigger events.

***Macbeth****Electronics Designer*

September 2012 - April 2013

- Designed, with Ivan Ingermann, six costumes that included 200+ individually addressable RGB LEDs.
- Built and maintained all of the electronics—wiring & soldering, microcontrollers, switches—for the costumes.
- Developed custom software to deliver unique animated sequences via the LEDs.

***Dark Ride***

Athens, GA

*Animator, Software Developer*

January - April 2012

- Designed and animated media content consisting of still images, video, and interactive environments.
- Created custom back-end software solution to deliver media to a video wall consisting of fifteen 42” screens.
- Primary development platform was Autodesk Maya (Animation), Adobe Photoshop and After Effects, and Unity3D (Game Engine).

**Cloris Leachman Solo Performance**

Athens, GA

*Animator, Software Designer*

Spring 2010

- Developed software to navigate a 3D virtual set for Cloris Leachman's one-woman show.
- Converted a Nintendo Wii Remote (Wiimote) to interface with the software allow immediate interaction between performer and virtual environment.

**PROFESSIONAL EXHIBITIONS**

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“Commedia dell'Arte: Masks of Antonio Fava.” Northwestern University Library. 2011.

“Water Witch.” Documentary film created with Mike Hussey and Bruce Smith. National Civil War Naval Museum, Columbus, GA. 2010 - Present.

“Dynamic Cities.” Digital and Mixed-Media with Lisa Borgiani and Massimo Nidini. Italian Cultural Institute, London, UK, Mar - Apr 2010; European Parliament, Brussels, Belgium, Sept 2010; Gala Italia, New York, Feb 2011; Cassa Padana, Verona, Italy, Apr - May 2011; Galleria delle Arti, Cremona, Italy, Nov 2011 - Jan 2012.

**PANELS AND PRESENTATIONS**

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“Wearables and Smart Technology.” Dragon\*Con, August 2015.

“Makers and Makerspaces in Georgia.” Middle Georgia Digital Economy Summit, October 28, 2014.

“Evil Geniuses for a Better Tomorrow.” Dragon\*Con, August 31, 2013.

“Art and the Business of Animation and CGI.” Ciné Club, Athens, GA, April 18 2012.

“Animation, Art, and Careers for UGA Students.” Willson Center Cinema Roundtable, September 28, 2012.

**AWARDS, HONORS, & GRANTS**

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“NURBITS: Playing with Neural Transmission as a Puzzle/Rhythm Game.” *Key Personnel*. (\$500,000) Awarded to Interactive Science in 3D, LLC (IS3D), Athens, GA. August 2012. Phase I Small Business Innovation Research (SBIR) National Institute of Health Grant.

“Violet and the Gordian Unknot: A Short Animated Film about Knots.” *Director of Animation*. (\$2,500) Awarded April 2010. Ideas for Creative Exploration (ICE) Project Development Grant.

“Betty Dowdy” Animation Thesis Project. (\$1,000) Awarded February 2010. UGA Graduate School Dean's Award. Outstanding Teaching Assistant Award, 2011.

## TEACHING EXPERIENCE

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### Georgia Governor’s Honors Program, Valdosta, GA

Summer 2009 - Present

Engineering, Computer Science, and Design

*Department Chairperson and Instructor*

(2 Courses; ~15 Students each) A 4-week-long intensive summer program for the top gifted high school juniors and seniors in the state. Students receive rigorous training in electronics design, programming, and other media/technology topics, then work collaboratively toward a culminating project. Classes are held 6 days a week, for 4.5 hours (majors) and 2 hours (minors).

### University of Georgia, Athens, GA

Spring 2015

Animation II

*Instructor of Record*

(1 Section; 16 students). Students were introduced to the principles of character animation and learned the skills necessary to tell compelling 3D-animated stories using simple characters and minimal design.

Introduction to Film

Fall 2009 - Spring 2014

*Teaching Assistant*

(2 Breakout Sessions; 20 students each). I graded tests, quizzes, and essays, led discussions once a week, and offered assistance to students during weekly office hours.

### Whitewater High School, Fayetteville, GA

Fall 2006 – Spring 2008

English, Debate

*Instructor & Debate Team Coach*

## REFERENCES

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Available upon request.