## **Paul Clifton**

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	Atlanta, GA 30307 paul@spacetemple.com
Education	Georgia Institute of Technology
	Ph.D. Digital Media – Expected Graduation May 2014
	M.S. Digital Media – May 2010 Masters Project: "WorkTop: A Multi-touch Tabletop Sketching Application for Interdisciplinary Design Collaboration". Committee: Dr. Ali Mazalek, Dr. Michael Nitsche, and Dr. Jon Sanford. Researched and developed tabletop and other tangible interfaces for collaborative work, games, interactive narrative control, and cognitive science research.
	<ul> <li>B.S. Industrial and Systems Engineering – December 2005</li> <li>Honors: President's Undergraduate Research Award Grant, Deans List</li> <li>Coursework: Java Programming, Circuits and Electronics, Human Integrated Systems, Simulations, Databases,</li> <li>Probability and Statistics, Stochastic Methods, Queuing Theory, and Optimization.</li> <li>Study Abroad: Summer 2003 Georgia Tech Lorraine Metz, France</li> <li>Summer 1998 Exchange Student Ulm, Germany</li> </ul>
Experience	<b>Don't Open That Door – Lead Designer/Project Manager</b> 1-2012 to Present eTV Lab - Georgia Tech Designed interactions and led a team to develop a gesture based interactive narrative project based in the universe of the TV show <i>Supernatural</i> using Microsoft Kinect and video to create an experience that invokes a sense of dramatic agency within the context of a persistent moving narrative. Project sponsored by Intel.
	WorkTop Project1-2009 to 5-2010Georgia TechResearched, designed, and developed a multi-touch table top sketching application for interdisciplinary designcollaboration. Conducted iterative user evaluations with paper-based and digital prototypes to establish the final design.
	<b>eTV Lab</b> 6-2009 to 8-2009 eTV Lab - Georgia Tech Designed and developed iPhone based interactive narrative remote control. Debugged and streamlined JavaScript for social viewing set-top box applications.
	<b>BDC - Research Assistant</b> 08-2009 to Present Synlab - Georgia Tech Designed, built, and troubleshot a puppet interface for mapping body motions onto a 3D virtual character in real time using Arduino, Bluetooth, and Processing. Conducted cognitive science experiments to determine the puppets ability to enhance identification with a virtual character. Project sponsored by NSF Creative IT.
	<b>Experimental Media - Teaching Assistant</b> Spring 2010, 2011, 2012 Georgia Tech Wrote and taught classes on electronics, wireless communication and physical fabrication. Helped students design and develop interactive play spaces for outdoor installation, a puppet show in which the puppets controlled a 3D visualization in real time, and embodied interfaces that map the physical movements of one animal on to virtual movements of a different animal.
	Digital Media Student8-2008 to presentGeorgia TechDesigned and created websites and Flash applications. Developed interactive AJAX applications. Created a 3Denvironments using Maya and Unreal. Studied visual and interaction design with a focus on tangible interactions.
	Technical Writer4-2007 to 8-2008Shoap Technical ServicesUsed software including Microsoft Word, Adobe FrameMaker, Robohelp, Visio, Adobe Illustrator and CorelDraw to produce professional quality manuals, requirements specifications, and online help guides for the creditcard processing industry.
	Logistics Analyst1-2006 to 4-2007Alfred Karcher Inc.Developed VBA Macros for MS Excel to streamline the customs invoicing process. Researched, reported on and negotiated contract manufacturing terms. Managed inventory using SAP. Wrote and compiled a training manual for common SAP tasks.
	Independent Research Project8-2005 to 12-2005Georgia TechResearched and analyzed criticism and important works of utopian science fiction for the Georgia Tech ScienceFiction Lab. http://sciencefictionlab.lcc.gatech.edu/subTopicUtopia.html

Senior Design Project	1-2005 to 5-2005	Atlanta Humane Society	
Worked with a team to analyze and improve the anima	l adoption process. Delivered wi	ritten and oral reports to	
technical and non-technical audiences. Developed and administered customer surveys. Reduced customer wait			
time by 66% and increased adoptions by as many as 200 per year.			

Science Fiction Lab9-2001 to presentGeorgia TechHosted and produced a monthly show on WREK radio consisting of author interviews, reviews, and critical<br/>analysis of science fiction. Gained recording and audio production, as well as leadership and organization skills.<br/>Researched and wrote criticism of examples of engineering in utopian science fiction.

## **Independent Publishing Project**

10-2005 to 2-2006 Georgia Tech

Used Adobe InDesign to layout a collection of short stories written for the Monstrous Bodies Symposium. Contracted and worked with a printer to produce the book for use as promotional material for the School of Literature, Communication and Culture at Georgia Tech.

- Publications
   Paul Clifton, Ali Mazalek, Jon Sanford, Claudia Rébola, Seunghyun Lee, and Natasha Powell. 2010.

   SketchTop: design collaboration on a multi-touch tabletop. In *Proceedings of the fifth international conference on Tangible, embedded, and embodied interaction* (TEI '11). ACM, New York, NY, USA, 333-336.
  - Paul G. Clifton. 2010. Spatial relationships: a framework for understanding the relationships between real and virtual spaces. In *Proceedings of the fifth international conference on Tangible, embedded, and embodied interaction* (TEI '11). ACM, New York, NY, USA, 433-434.
  - Ali Mazalek, Sanjay Chandrasekharan, Michael Nitsche, Tim Welsh, Paul Clifton, Andrew Quitmeyer, Firaz Peer, Friedrich Kirschner, and Dilip Athreya. 2010. I'm in the game: embodied puppet interface improves avatar control. In *Proceedings of the fifth international conference on Tangible, embedded, and embodied interaction* (TEI '11). ACM, New York, NY, USA, 129-136.
  - Ali Mazalek, Michael Nitsche, Sanjay Chandrasekharan, Tim Welsh, Paul Clifton, Andrew Quitmeyer, Firaz Peer, and Friedrich Kirschner. 2010. Recognizing self in puppet controlled virtual avatars. In *Proceedings of the 3rd International Conference on Fun and Games* (Fun and Games '10). ACM, New York, NY, USA, 66-73.
  - Mazalek, A., Chandrasekharan, S., Nitsche, M., Welsh, T., Thomas, G., Sanka, T., and Clifton, P. 2009. Giving your self to the game: transferring a player's own movements to avatars using tangible interfaces. In *Proceedings of the 2009 ACM SIGGRAPH Symposium on Video Games* (New Orleans, Louisiana, August 04 – 06, 2009). S. N. Spencer, Ed. Sandbox '09. ACM, New York, NY, 161-168.
  - "I Vant to Vleed My Vlood." *Monstrous Bodies: Celebrating 25 Years of the Fantastic in the Arts at Georgia Tech.* Ed. Paul Clifton. Atlanta: Georgia Tech School of Literature Communication and Culture, 2006. 41-53.

"Busted Up." North Avenue Review Winter 2003: 31-3.

- Development: MySQL, Java, JavaScript, PHP, ActionScript, Flash, Adobe CS3, Arduino, Maya, UnRealEngine, Visual Basic for Applications (VBA)
- Design: Adobe Photoshop, Illustrator, InDesign, and Premier, SolidWorks, PhotoView 360, and Autodesk Showcase

Tools