

# Tara Faye Siegel

## CONTACT

siegelt@seas.upenn.edu  
www.tarasiegel.com

## EDUCATION

### University of Pennsylvania

Class of 2014

- Bachelor of Science in Engineering in Digital Media Design. School of Engineering and Applied Sciences. Minor in Fine Arts.
- Relevant Coursework: Computer Graphics, Algorithms, Automata Computability & Complexity, Computer Systems, Programming Languages & Techniques I-II, 3D Computer Modeling, Digital Design Foundations

## WORK EXPERIENCE

### YouTube Web Developer Intern at Google

Summer 2013

- Implemented and developed a comprehensive search UI drop down menu on the Video Uploads page that allows users to perform useful and smarter advanced search options within their own videos; Written in JavaScript, HTML5, CSS3, and Python
- Created a Python wrapper of a C++ query language that takes a string on the server side and returns a parsed query that can be used more intelligently. Will be utilized by multiple teams at YouTube
- Prototyped a more flexible and enhanced Video Manager sidebar in Angular.js, JS, and CSS3
- Contributed to the daily upkeep of YouTube, fixing ten front end bugs related to the Creator Toolbox within the first 3 weeks.

### Consumer Technology Innovation Intern at NBCUniversal

Summer 2012

- Prepared and wrote documentation for four different Proof of Concepts and developed visual Mock-Ups for each in Photoshop. Platforms included Windows 8, Samsung Smart TV SDK, Comcast Legacy Boxes, and Zeebox
- Created an interactive Bingo game that was integrated into a Proof of Concept Project in anticipation of Zeebox's United States release using HTML5, JavaScript, Photoshop and Zeebox APIs
- Developed, designed and proposed a new internal tool for faster and more efficient communication between NBCUniversal employees as part of a four person intern team

### Design/Animation Intern at CBS4 Miami

Summer 2011

- Designed and produced eight 15' and 30' second animated Spec Spot commercials in After Effects
- Created on-air graphics and animations that appeared in daily stories on news broadcast
- Worked on CBS4's "Make Healthy Happen" Campaign and Weather Spots for five print ads and commercials

### Engineering Intern at HEICO Aerospace

Summer 2009, Summer 2010

- Worked with the ATOS White Light Scanner by using a rotating dual camera to create 3D images in order to reverse engineer complex OEM aircraft parts
- Touched up 3D renderings in Geomagic to ensure part dimensions within a tenth of a millimeter

## RELEVANT PROJECTS

### Bright Beats (PennApps)

January 2013

- Worked with three teammates in a 48-hour hackathon to develop a educational tool to learn how to play drums.
- Created a WebGL interface that plays back a light sequence of beats made on an actual drumset using a 3D model.

### CLink Web Application (PennApps)

September 2012

- Worked with two teammates to develop an application that scrapes Craigslist data and texts user when an item that meets a set of defined parameters has been posted, allowing immediate response (Front End Dev)

### OnMyWay Web Application (Facebook Summer of Hack)

July 2012

- Worked with three teammates to create a mobile optimized app that utilizes Yelp and Google APIs to give directions from one location to another with a detour to a top ranked Yelp business on the way (Design/Front End Dev)

### Gilty Pleasures Web Application (Gilt Fashion Hackathon)

June 2012

- Worked on Front End Development and design in a 12-hour "hackathon" style competition (Best Fashion Hack)

### Mini Maya- Mesh Editor and Scene Graph

Spring 2012

- Built a 3D mesh editor using C++ with OpenGL and QT for the GUI, 3800 lines of C++
- Implemented Catmull-Clark Subdivision, Polygon Mesh editing functionality and user interface

## ACTIVITIES

SIGGRAPH • Theta Tau Professional Engineering Fraternity (PR Chair) • SWE • Women in Computer Science • More than Pennies (Director of Internal Affairs) • West Philadelphia Tutoring Project (Tutor) • Running

## SKILLS

### Languages

Java • Javascript / JQuery  
C++ • HTML5  
CSS3 • Qt • LaTeX  
Basic C / Assembly/  
OpenGL / Python

### Creative

Autodesk Maya/Mudbox  
Adobe Creative Suite  
Basic Autodesk CAD

### Other

MS Office • Visual Studio  
Apple • Windows • Linux  
Eclipse • VIZrt

