

# POLINA SMIRNOVA

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## EDUCATION

### **The Cooper Union for the Advancement of Science and Art**

Mechanical Engineering      Full Tuition Scholarship  
Cumulative GPA 3.3 / 4.0      Major GPA 3.4 / 4.0

*New York, NY*  
2010 – 2014

## EXPERIENCE

### **StructureTone**

- Compiled budgets for multi-million dollar construction projects
- Bid jobs to clients such as CBS, AT&T, Tough Mudder, Vornado
- Assembled awarded bid, establishing new client relation with Jane Street Capital
- Coordinated job walk-throughs with owner's representatives, subcontractors

*New York, NY*  
June – Dec. 2013

### **The Studio**

- Self-studied 3D animation in Autodesk Maya
- Designed flyer advertisements for pro-bono client's new line of beauty products

*New York, NY*  
June – July 2012

### **SIGGRAPH Conferences (Special Interest Group on Computer Graphics)**

- Volunteered at technical presentations and computer animation screenings

*Vancouver & LA*  
Aug. 2011 & 2012

### **The Valley Hospital: Same Day Services Center**

- Shadowed operating room pharmacist; organized data with hospital software

*Paramus, NJ*  
2009 – 2010

### **MIT: Women's Technology Program**

- Introduction to mechanical engineering through hands-on projects and tours

*Cambridge, MA*  
July – Aug. 2009

## PROJECTS & COURSEWORK

### **Engineering Design**

- Senior Design Course: *Energy Kiosk*
  - o Teaching public about green features of 41 Cooper Square
  - o Creating content for an interactive web-based platform
- Mechatronics Course: *Sumo Robot Competition*
  - o Built autonomous robot, wired breadboard
  - o Programmed microcontroller in C and assembly
- Design and Prototyping Course: *Automaton (Story-telling Music Box)*
  - o Team leader; developed a storyboard to bring to life
  - o Prototyped gear mechanisms with laser cutter
  - o Documented progress on team's wiki page

Fall 2013

Spring 2013

Spring 2012

### **Product Design**

- Industrial Design Course: *"The Beauty Book" Make-up Bag*

Fall 2012

### **Grant Funded Work**

- ASME Diversity Action Grant: *STEM Outreach with NYC Public Schools*
  - o Wrote and received grant; led hands-on bridge building class for 5<sup>th</sup> graders

2012 – Present

### **Computer Graphics & Creative Projects**

- Adobe InDesign: *SWE Monthly Planner*
- 3D Stop-motion Claymation: *1.5 Minute-long Animations*

Summer 2012  
2008 – 2010

## LEADERSHIP & ACTIVITIES

SWE (Society of Women Engineers), *Cooper Union Event Coordinator*  
ASME (American Society of Mechanical Engineers), *Cooper Union Outreach Leader*  
Cooper Union Women's Volleyball, *Team Captain*  
Pi Tau Sigma (International Mechanical Engineering Honor Society), *Inductee*  
Cooper Union Senior Council, *Mechanical Engineering Representative*

2010 – Present  
2011 – Present  
2013 – Present  
2013 – Present  
2013 – Present

## COMPUTER SKILLS

Adobe InDesign, Illustrator, Photoshop; On-Screen Take Off; MATLAB; Autodesk Maya; Microsoft Office