



## ANDY LAO

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### SKILLSET

**Adobe Creative Suite**  
**Siemens NX**  
**Maya**  
**MODO**  
**Zbrush**  
**Python**  
**HTML & CSS**

### EDUCATION

#### **Rensselaer Polytechnic Institute - Troy, NY** **Class of 2018**

B.S in Mechanical Engineering and  
Electronic Media, Arts, and Communication  
Concentration in Animation  
Rensselaer Leadership Award || Dean's List  
GPA: 3.46/4

### COURSEWORK

#### **Electronic Media, Arts, and Communication:**

Introduction to Visual Communication,  
Digital Filmmaking, Fundamentals of Animation,  
Animation I, Art History, Media Studio: Imaging,  
Perspectives on Photography

#### **Engineering:**

Introduction to Engineering Design,  
Engineering Processes, Strength of Materials,  
Material Science, Embedded Control,  
Engineering Dynamics, Thermodynamics,  
Fluid Mechanics, Heat Transfer, Modeling and  
Control of Dynamic Systems, Mechanisms,  
Electronic Instrumentation

### INVOLVEMENT

#### **RPI Streetdance Club - Troy, NY**

#### **Choreographer || Dancer || Fall 2013 - 2015**

Choreographed and taught pieces for the group  
Ran practices and workshops  
Performed in several shows a year

### EXPERIENCE

#### **Biomimicry Undergraduate Research Project** **Troy, NY**

#### **Undergraduate Researcher || Fall 2015 - Present**

Began research on the topic of biomimicry its applications  
Connected human anatomy and biomimicry to technologies  
Published applications tailored to high school students

#### **Split Screen Research Project** **Troy, NY**

#### **Lead UI/UX Designer and Web Developer || Fall 2015 - Present**

Designed interface buttons  
Designed project logo  
Created numerous user interface layouts  
Collaborated with 5 other students of various skillsets  
In charge of future web development.

#### **VanArts Masterclass 2015** **New York, NY**

#### **Participant || Summer 2015**

Attended "The Character & Story Masterclass"  
Hosted by Vancouver Institute of Media Arts (VanArts)  
Instructed by Matthew Luhn - Story Supervisor at Pixar  
Valerie LaPointe - Story Artist at Pixar  
Developed skills in storytelling and character design

#### **Humans of RPI** **Troy, NY**

#### **Founder || Photographer || Spring 2013 - Present**

Photograph individuals and share their stories online  
Encourage other students to submit and explore photography  
Manage the Facebook page and other submissions

#### **Columbia University: Engineering and Community Service** **New York, NY**

#### **Project Leader || Summer 2013**

Led a team of students in designing a water filtration system  
Hand sketched concepts  
Modeled in Maya  
Constructed wooden prototype  
Gave formal presentations