

# Xiaoxiang Ma

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## Education

### Cornell University, Ithaca NY

May 2021

B.S. Information Science

Minor in Design and Environmental  
Analysis

## Design

Sketch  
Illustrator  
Photoshop  
InDesign  
InVision  
HTML5  
CSS3

## Engineering

Solidworks  
Rhino 3D  
Java  
Python  
Unity  
Arduino  
C#

## Campus Activities

### Creative / Marketing Analyst

*Guac Magazine*

Nov 2017 – Present

Designed content & layouts for 3  
series of published travel magazine

### Content designer

*International Students Union*

Sept 2017 – Present

Created graphic designs for  
International Gala and ongoing  
cultural events

### Airframe designer

*Cornell Rocketry Team*

Fall 2017

Designed and manufactured  
separable wiring module for the  
recovery systems and structure of  
NASA SL competition rocket

## Experience

### Composite / Ergonomics engineer • Cornell Baja

September 2018 – Present

- Currently designing and manufacturing the seat and body panels of an off-road vehicle to participate in the BAJA SAE competition
- Building a prototype seat in Solidworks
- Constructing mannequin testing in Solidworks to acquire areas of discomfort
- Manufacturing body panels with carbon fiber composite

### Research Assistant • Cornell University HCI Design Lab

June 2018 – Present

- Designed and implemented yarn extruding mechanism for 3D crochet machine
- Designed and motor powered yarn clamp for 3D crochet machine
- Created Gcode commands for extruder movement control
- Designed and produced 3D-printed parts including extruder, gear racks, and motor brackets
- Created Python converter scripts to translate Fusion360 commands into Gcode

### Usability / UX engineer • Spect

June 2018 – Present

- Designed digital UI for Spect mobile app
- Developed front-end app interface in Unity for IOS and Android
- Conducted usability testing for stakeholders to improve product strategy
- Worked with product team to implement updates based on customer feedback

## Relevant Coursework

Obj-Oriented Programming & Data Structure in Java  
Networks

Visual Literacy & Design Studio

Design and Programming for the Web