Xiaoxiang Ma

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Education

Cornell University, Ithaca NY

May 2021

B.S. Information Science
Minor in Design and Environmental Analysis

Design   Fabrication

Design	Fabrication
Sketch	Solidworks
Illustrator	Rhino 3D
Photoshop	Arduino
InDesign	Java
InVision	Python
HTML5	Unity
CSS3	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
Front-end app development 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

Courses

Obj-Oriented Programming & Data Structure
Networks
Visual Literacy & Design Studio
Design and Programming for the Web