

Jenny Xia | Systems Design Engineering

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Experience

VR Development Intern

CNIB (Canadian National Institute for the Blind)
January - April 2018 (4 months) | Toronto

- **Developed** a subway platform simulation for orientation and mobility rehabilitation usage for CAVE VR and HTC Vive, using **Unity3D** and **C#**.
- **Scripted** realistic object behaviour and created a camera rig prefab using **C#** for projecting scenes onto CNIB's non-cluster based CAVE setup, allowing future scenes to be developed faster and cheaper.
- **3D modelled** and textured assets using **SketchUp** and **Blender**.
- **Initiated** new partnership with the University of Waterloo's Games Institute, connecting CNIB to resources from a network of 10+ institutions.

Mechanical Engineering Team Member

Midnight Sun Solar Rayce Team (Student Design Team)
May 2018 - Present | Waterloo

- **Designed** and **fabricated** parts with **SolidWorks** and **3D printing** for cable routing and electrical/mechanical integration, with issue tracking in **JIRA**.
- Assisted in aerobody fabrication and battery box assembly.

Design Architect Intern

MMC International Architects
September 2016 - April 2017 (8 months) | Toronto

- **Designed** retail redevelopment concepts using **InDesign**, **Illustrator**, **Photoshop**, **SketchUp** and **V-Ray** for projects worth over \$400 million.
- Created working drawings using **AutoCAD** for construction packages.

Crisis Responder

Crisis Text Line / Kids Help Phone
March 2018 - ongoing volunteer position | Canada

- Utilized active listening and collaborative problem solving skills to provide prompt and effective emotional support to youth in crisis.

Skills

Dev: C/C++, C#, Python, HTML, CSS, Unity3D, Arduino

CAD/3D: AutoCAD, Solidworks, SketchUp, Rhinoceros 3D, Blender, V-Ray

Design: InDesign, Illustrator, Photoshop, hand drafting

Build: 3D printing, laser cutting, model making (wood, foam, board, metal)

Education

Systems Design Engineering
University of Waterloo
2017 - 2022 (expected)
Excellent academic standing

Architectural Studies
University of Waterloo
2014 - 2016
Dean's List (2A term)
International Experience Award (2016)

Interests

Painting, sketching, reading, running, piano, erhu

Selected Projects

www.jennyxia.com

Responsive portfolio website created using **HTML**, **CSS**, and **Bootstrap 4**.

[Catalogue/myne.tech](#)

Life cataloguing webapp developed during Hack the Valley using **HTML**, **CSS**, **Bootstrap 4**, **Node.js**, and **MongoDB**.

Money money money

Raining money VR scene that allows you to swim in cash, developed during ElleHacks using **C#**, **Unity3D** and the **LeapMotion API** for Oculus Rift.

Shottle

Product design for a two chambered bottle with a spring loaded lid that encourages hydration and responsible alcohol consumption, modelled in **Solidworks** and prototyped using **3D printing**.