ANNA WEI

SKILLS

SolidWorks experience through designing parts for the Waterloo Rocketry Design Team.

Refined **AutoCAD** skills through development of laser-cut side projects, available on GrabCAD upon request.

Developed mini-projects available on GitHub by coding in **C++, Python**, **HTML**, and **CSS**.

Proficient in **Google SketchUp** and the **Microsoft Office Suite.**

Bilingual in **English** and **Mandarin Chinese**.

EDUCATION

University of Waterloo
Candidate for Bachelor of Applied Science
September 2018 – June 2023
Mechanical Engineering, Honours, Co-operative Program

Richmond Secondary School
Global Perspectives Class of 2018
September 2013 – June 2018
Participant of self-funded humanitarian trip to Tonga. Raised over $20 000 as a class to support cause.

ACHIEVEMENTS

Drafting and Design Level II
Academic Achievement Award 2016
Utilized AutoCAD and Google SketchUp to design buildings and create a fully rendered, animated walk-through.

Constructed intricate, fully furnished cardboard 3D model of a house project by hand.

CONTACT

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EXPERIENCE

Payload Structure Designer, Waterloo Rocketry Design Team
September 2018 – present
Designed and co-created brace component of CubeSat using SolidWorks by following design constraints and criteria to house an experimental module.

Modelled assortment of screws for SolidWorks rocket payload assembly by following industry-standard dimensions and creating design table of configurations to allow easy access to alternate screw sizes.

Junior Instructor, Geering Up UBC Engineering & Science for Kids
July 2018 – August 2018
Aided instruction of children aged 7-14 by promoting science and engineering topics through hands-on workshops while working with products and programs such as Adafruit and Scratch.

PROJECTS

Edge-Lit Acrylic Arduino Clock
December 2018 – Present
Inspired by the aesthetic of nixie tubes, this project will feature laser-engraved acrylic pieces that display numbers as an Arduino-controlled PCB of multiple LED's is shined through the edges of acrylic.

Laser-Cut Gear Car
December 2-23, 2018
Utilized AutoCAD to create CAD drawings, then laser-cut several prototypes to ensure proper fit of gears and wheel axes.

Finished wooden toy car product featured a figurine which was mobilized by the turning of the wheels on the car.

ACTIVITIES & INTERESTS

Ultimate Frisbee
March 2014 – August 2018
Team Captain
Led team as a captain to the Canadian Ultimate Championships 2017 in Ottawa. Demonstrated leadership and perseverance, as well as ability to help team maintain a positive attitude and high morale.
Team Manager
Directed, organized, and oversaw several fundraisers. Working as a team, was able to fundraise over $3 000 over two weeks.

Richmond Secondary School Science Team
January 2018 – June 2018
Competed at UBC Physics Olympics 2018. Collaborated with teammates to build and test baking-soda and vinegar powered launcher for the competition.

Awarded with Silver Medal in the Polarization Lab Activity