

George Lin

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📍 Edmonton Alberta, Canada

Education

University of British Columbia, Bachelor of Applied Science

2022 – 2027

Dean's Honour List - CGPA: 87.2% | 3.8 / 4.0

Experience

UBC Uncrewed Aircraft Systems, Aircraft technical lead

May 2023 – present

- Currently managing an interdisciplinary team of 10 engineer students on a VTOL project

UBC Uncrewed Aircraft Systems, Aircraft subteam

2022 – May 2023

- **Wing Specifications:** Responsible for selecting airfoils and designing wings for new 2023 aircraft
- **Wing Analysis:** Ran analysis on wings using simulation XFLR5 and XFOIL to obtain lift values and moments generated by control surfaces
- **Wing CAD:** Used SOLIDWORKS to create production ready CAD of the aircraft wings
- **Landing gear CAD:** Designed and modeled CAD for the landing gear of an aircraft with a 14% weight reduction over previous iteration.

Projects

Sonar Depth Sensing

2023

- Used MATLAB to display real time data from GPS and IMU sensors
- Implemented a Kalman Filter to process sensor data to reduce uncertainty in measurements
- Created a custom PDB to manage connections to Arduino
- Used depth data from a underwater distance sensor with positional measurements to create a bathymetric map

Single Axis Solar Tracker System

2022

- Arduino code for controlling tilt of solar tracking system
- Circuit diagram of components
- Signal processing of data obtained from the solar tracker

Skills

Circuit design, FEKO Simulations, Signals Processing, Controls, Embedded Systems, MATLAB & Simulink, python, C & C++, git, CAD (SOLIDWORKS, AutoCAD), Manufacturing