

# M. AVERY B. SOULE

## DESIGN

Inventor  
Solidworks  
Fusion 360 (FEA)  
Sketch  
Adobe Suite  
Origami Studio  
Final Cut

## REPERTOIRE

Design sprints  
User-centred design  
Customer interviews  
Iterative prototyping  
CAD / Modelling  
Eng. Drawings & GD&T  
Machining & fabrication  
Lab equipment  
Usability testing  
Launching

## CODE

Python  
C++  
HTML/CSS  
JavaScript  
Matlab

## INTERESTS

Entrepreneurship  
Product Design  
Everything outdoors  
Callisthenics  
Wearables  
Film creation

## EDUCATION

Systems Design Engineering  
Mechanics · Materials · Circuits  
Class Sports Rep  
2021

## CONNECT

mabsoule.ca  
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403-973-5505

## EXPERIENCE

### Dynaplas

Prototyping Specialist, Winter '17

Iteratively designed & prototyped products, models, and specialized manufacturing equipment using sketching, CAD, FDM & SLA printing, machining, and fabrication.

Created 2D engineering drawings based off of my designs for in-house & external shop machining.

### General Motors · 2908 Innovation Lab

Innovation Specialist, Summer '18

Led design thinking sprints & workshops to create product concepts rooted in customer empathy and spread a design thinking mindset.

Iteratively designed & usability tested urban mobility solutions with a user-centred approach · collaborated with eBike team

### Linamar · Skyjack

Project Manager, Fall '17

Collaborated to bring new products to market through organized machine reviews, issue tracking, and build team scrums.

## INITIATIVES

### Electrify

Creator · Electric Vehicle Conversion '16

Converted an internal combustion sports car into a road-legal electric vehicle as a personal garage project.

Redesigned powertrain, power-steering, brake, HVAC, refueling, electrical, and instrumentation systems.

### Rhythm

Product Designer · Design Project '17

Utilized personas, market research, and iterative prototyping to design an Arduino-based product aimed to optimize user's circadian rhythms.

Debugged & validated circuits using oscilloscope and DMM equipment.

### Blackbox

Designer & Developer · Design Project '18

Collaborated to develop an Arduino-based product that logs vehicles motion, infotainment inputs, and control interactions for increased accuracy in maintenance indicators & vehicle dynamics analysis.

Designed circuits & code to integrate an IMU sensor, LED display, and input controls, creating an operational demo product.

### Motolab

Founder · Design Team '17 & '18

Led UW's electric motorcycle design team through club branding & sponsorship using sprints, wireframing, iterative prototyping, and design reviews · thousands raised · website developed · logo designed