

Matthew Collins

Systems Design Engineering

✉ m25colli@uwaterloo.ca



matthewc.ca



linkedin.com/in/TheMattCollins

Skills

Technical Writing
Roadmapping
Collaboration
Brainstorming

Sketch/Figma
UX Research
PowerBI
Coding

Awards

SHAD Fellow 2018
Robotics Worlds Semi-Finalists
DECA Provincials top 10 Awards
CO² Car Design Winner
OHF Hockey Provincial Finalist

Education

Systems Design Engineering

University of Waterloo '24

Motorola Engineering Scholarship
UW President's Scholarship

Relevant Courses

Human Factors in Design
Design Process & Prototyping
Dynamic Systems Modelling
Data Structures and Algorithms
CAD Graphics Lab (SolidWorks)
Foundations of Venture Creation

Interests

Film
Podcasts
Surfing
Music
Electric Guitar
Hockey

Experience

Project Operations Manager

Bombardier

Sep 2022 - Present

Oversaw project operations on the Global 5/6 fleet of private jets. Created a variety of dynamic dashboards using PowerBI to present real-time project analytics and aid business decisions.

Product Manager

Moves Financial

Jan 2022 - Apr 2022

Shipped product features for the Moves 'banking for gig workers' Fintech app. Wrote product requirement documents, managed team projects and actively contributed to product strategy.

Product Designer

16 Bit Inc.

Jul 2021 - Sep 2021

Collaborated with a team of Radiologists to create 'Rho', an AI powered SaMD tool to detect Osteoporosis. Led product team meetings, prototyped high-fidelity UI mock-ups in Figma and conducted UX research to design the Radiology system.

Product Developer

Altium

Sep 2020 - Dec 2020

Built AI object detection systems on lightweight PCBs using Python, OpenCV and TensorFlow YOLOv4. Applied cutting edge computer vision principles to optimize system detection speeds and accuracy.

Solutions Developer (Full-Stack + UX/UI)

Jasper PIM

Jan 2020 - Apr 2020

Managed rapid prototyping of an E-commerce app, presenting final UI designs to clients. Developed Full-Stack code for a Shopify web app using the MVC architecture.

Projects

matthewc.ca - HTML, CSS, JS

May 2022

Created a terminal-style personal website using CSS, HTML and JS.

SHAD Final Design Project

Jul 2018

Designed a vehicle mounted LIDAR ice detection system and data network to reduce costs of salt-based road de-icing.

Coin Collector - Python

Jan 2018

Developed a one player retro arcade-style game using Pygame.