# Matthew Collins

## Systems Design Engineering

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## Skills

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|---|---|
| Roadmapping | Sketch/Figma |
| Technical Writing | UX Research |
| Brainstorming | Amplitude |
| Collaboration | Coding |

## Awards

SHAD Fellow 2018
Robotics Worlds Semi-Finalists
DECA Provincials top 10 Awards
$CO^2$ 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
Systems Modelling
Data Structures and Algorithms
CAD Graphics Lab (SolidWorks)

## Interests

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|---|---|
| Interior Design | Music |
| Computer Vision | Electric Guitar |
| Podcasts | Kayaking |
| Running | Hockey |

## Experience

### Product Manager — Moves Financial
*Jan 2022 - Apr 2022*

Carried epics from inception to fruition using methods adapted from Basecamp's 'Shape Up' approach. Wrote product requirement documents, managed team projects and actively contributed to product strategy for the Fintech banking app.

Led a series of user interview rounds to develop a deep understanding of gig-worker's priorities. Performed analysis to deliver key insights and effectively improve the user experience.

### 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.