

# Making Carbon Footprint Calculations *Easy, Efficient, and Fun With EcoPrint.*

A Mini Case Study Showcasing Core Competencies in My Design Process



**EcoPrint**

-Small Steps Big Change-

View the full detailed  
case study below



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# The Problem

Globally, 86% of adults agree that they want the world to become more sustainable and equitable. However, many find it challenging to take the first step because they struggle to calculate their carbon footprint.

Source : World Economic Forum



So, if you are asking “Why is it very hard to know your carbon footprint?” I found out 3 primary reason’s why

- 01 You have to answer 60+ Questions  
“Current Practices are **too technical**”
- 02 Tools expect that you know all about your current emissions  
“**Tools assume** that the user knows it all”
- 03 lack of Personalisation  
“**Tools lack personal recommendations**”

After understanding the problem I have opened my toolkit to start solving the above problem and design a solution to make it usable and effective.

My Strategy

**E** **D** **I** **P** **T**  
empathise refine ideate prototype test

To understand the challenges and limitations of reducing carbon footprints from an expert's perspective, **I interviewed...**

**01 Environmental Scientist**

**02 Research Professors**

**01 Climate Activist**

**Sustainability Enthusiasts**

From those conversations I understood that...

It is hard to calculate

**“ Individual’s footprint unless we know their life style from when they wake up to the time they go back to bed”**

It doesn't make huge impact

**“ However, the potential impact of individual actions is limited, as the majority of emissions stem from industrial sources”**

Controlling emissions is achievable

**“ Controlling the emissions we produce is achievable; it simply requires proper education on the subject”**

Experience should be Intuitive

**“ Reducing your carbon footprint should be an intuitive experience that encourages the formation of sustainable habits. ”**

## The Solution

What if we design an application that can do the following:

**01** Track individual's carbon footprint from day to day activities, from driving to eating habits **using wearable tech.**

**02** **Gamify the experience** by bringing in daily, weekly and monthly activity streaks.

**03** **Recommend ways to reduce the carbon footprint**, the best part is they would be personalized.

**04** **Incentivize for maintaining their streaks** through which they can buy green products from the store.

## The Design

Before looking at the design, let's look at what the user's want and need



### Sam Ecoman

**Age** : 32 years    **Location** : United States    **Job** : Full time advocate



### Goals

- Along with knowing their footprint, we wanna know ways to reduce it.
- Want to calculate carbon emissions with ease
- Gaining knowledge about climate change, its impact, and ways to contribute positively through everyday actions.
- Exploring options to offset unavoidable emissions, such as through tree planting or supporting renewable energy projects.





Introductory Screen

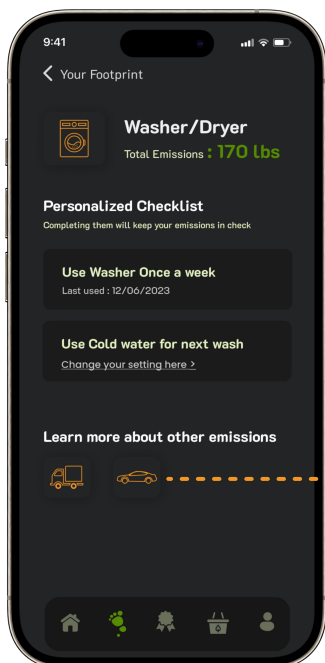
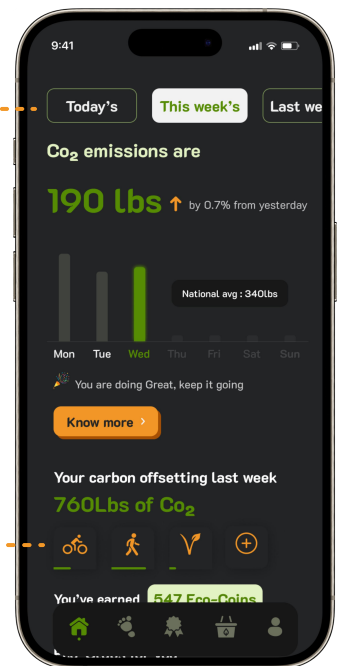
## Introducing EcoPrint

- Calculate your carbon footprint with ease -

## Overview Page

Ability to track footprint's with timelines.

Display of top off setter's



## Personalized Recommendations Page

Recommendations on other emissions

This miniature case study is designed to just give a glimpse into my problem-solving approach.

View full detailed case study below

[View Case Study ↗](#)

Let's end the case study with credits

## A big shout out too

**Proff. Zoltan Nagy**

Assistant Professor

**Dr. Kara M. Kockelman**

Professor, Civil Engineer

**Dr. Kenneth R. Young**

Professor, Emeritus

**Dr. Susan D Hovorka**

Research Professor

These are the people who guided me on better understanding the problem and were welcoming when I said that I wanted to solve the problem.