

The Iron Tower

Status: Available

Group Members:

Sponsor(s): Laundrx

Supervisor(s): Ramtin Rakhsha, PhD, P.Eng, Lecturer, Mechatronics Systems Engineering
Josuhua Rabanne, Laundrx

Project Description

Introduction: Laundrx, a forward-thinking product development company based in Vancouver, BC, is dedicated to revolutionizing the laundry industry. Our primary objectives include conserving water, preserving fabric integrity, and providing individuals with efficient and cost-effective laundry solutions. In pursuit of these goals, Laundrx has several ongoing projects, one of which presents an exciting opportunity for a dynamic team of Mechatronics Capstone students.

The Project: Introducing the Laundrx Iron Tower—a groundbreaking design that facilitates convenient storage in limited spaces. This innovative device allows users to hang their clothes on the tower, where two horizontal arms move up and down, releasing a carefully calibrated mix of fluids using our patented technology. This process seamlessly irons and refreshes clothes, eliminating odors and wrinkles in a matter of a few minutes. The specifics of the process and emission combination will be provided to the selected capstone team.

The Team: Your capstone team will collaborate with a comprehensive group of engineers and business professionals at Laundrx. We are committed to supporting the development of marketable products, providing necessary resources such as 3D printers, and covering project-related costs with an initial budget of \$2,000.

The Priorities of the Project: Time is of the essence. The sooner the prototype is completed, the faster we can bring it to market. Ideally, we aim to see the project finalized before August 2024. In addition to speed, manufacturability is crucial. We expect a comprehensive Bill of Materials (BOM), assembly instructions, and a user manual to be part of the deliverables.

Why Opt for This Project:

- x Collaborate with seasoned engineers and business managers for a product development experience geared toward commercialization.
- x Potential for a bonus upon successful project delivery.

Considerations: It is imperative to note that this project and all associated intellectual properties are the exclusive property of Laundrx. Any potential bonus for students upon project completion

will be determined by the management at Laundrx.