

2024 Finalists' Concept Overviews

In State Entries

Resto Rides

Resto Rides is an existing ecommerce-based resale business that sells new, used, and new-old-stock (NOS) powersports parts, accessories, and vehicles. The business has engaged in ecommerce sales through sites like eBay and Marketplace for over 2 years. Resto Rides solves the issue of scarce replacement parts for owners of older powersports vehicles. Many manufacturers no longer produce these items, leaving owners to find used and new parts themselves.

Cab Shine Solutions

Does time slip away from your fingers, and you do not get around to cleaning your farm equipment cabs like you planned on? Cab Shine Solutions can help you with that! When servicing and cleaning equipment many farmers and ranchers forget, or set aside, detailing the cabs of their equipment. It is important to ensure a safe and comfortable environment for operators.

The Grass Whisperer

In a small town, your lawn deserves a personal touch. That's where The Grass Whisperer comes in! My services include mowing, with the option of bagging, and precise trimming. I am committed to providing reliable, high-quality care to help you maintain a beautiful lawn!

E-Z Holds

E-Z Holds are my new brand of climbing holds, created with custom molds and poured from liquid polyurethane. Many current climbing holds don't prepare you for the real rock you will find outdoors. This is why my focus will be designing holds that accurately replicate the natural feel of real rock, while still being comfortable to train on.

Butler Mechanics

When most farm machinery breaks down, a farmer will either have to manually fix it or go to their local dealership to have it fixed. The problem with this is the dealership is often over an hour drive away, and the cost for such repairs can be expensive. Butler Mechanics will fix this by going to the farmer's to help fix their machinery.

Twine guard

Twine guard is a new invention that will help frustrated farmers everywhere. It is an invention to make cutting twine off of a processor easier. It is easy access and very easy to attach. All you need to do is attach the guard to your grinder and the guard makes it so the twine simply can not wrap around your blade. In the past it was always a hassle but now there is twine guard.

Cuddle Cup Cafe

Welcome to Cuddle Cup Cafe, your cozy escape in the heart of town! We serve rich, handcrafted coffee, delicious homemade pastries, and a warm, inviting atmosphere that feels like home. Whether you're unwinding solo, catching up with friends, or diving into a good book, our cafe is the perfect spot to relax and recharge. Come cuddle up with a cup today!

Bright Horizons

We help parents achieve the goal of juggling day to day life and family by creating a daycare system unique to all the others. We provide pickup and drop off services as well as education and entertainment. We provide these services to children 1-9 years old. Our facility will have everything your kids need and more including food, entertainment, learning, transportation, and much more!

Out of State Entries

DIAL

Acute Lung Injury (ALI) is a devastating condition that can cause breathing difficulties and low oxygen levels. In the status quo, researchers that identify ALI for treatment purposes struggle with accuracy, efficiency and experience bias. My business idea is utilizing a deep learning AI model implemented into an app to solve these struggles. DIAL (Diagnostic Image Analysis of Lungs) lets researchers input a microscopic lung image. DIAL calculates and returns the diagnosis and confidence level.

Know.Period

Every two minutes, an American woman is diagnosed with breast cancer. It is the 2nd leading cause of death from cancer among women. Yet, under-diagnosis is rampant - fewer than one in three women will get a clinical breast exam this year. We made a smart sanitary napkin to engage with menstrual blood and find biomarkers of danger. Health monitoring can happen as regularly as her period - in private, with agency, and on demand!

Involvium

Students, say hello to a new era of service-learning. Involvium is a revolutionary social network that connects high school students to local extra curriculums and volunteer opportunities, making it easy to find events, track hours, and build a digital portfolio. By offering mentorship programs and verified hour tracking, we address the need for a streamlined, engaging platform for students seeking meaningful community involvement and skill development, simplifying volunteer management for students, schools, and clubs.

NeuroStep

NeuroStep is a smart insole designed to detect early signs of Alzheimer's through gait analysis, filling a gap in proactive cognitive health monitoring. Unlike competitors, NeuroStep is tailored

specifically for Alzheimer's detection and offers daily, real-world monitoring in a consumer-friendly way. Beyond cognitive health, NeuroStep can also serve orthopedic needs by identifying irregularities in gait, providing a dual benefit for those monitoring both neurological and physical health.

Beat by Beat: Real-Time Virtual Blood Sugar Monitoring

Beat by Beat is a personalized AI-powered virtual intelligent, real-time, non-invasive continuous monitor that predicts blood glucose levels in diabetics (type 1 & 2) with or without insulin dependency from zero to two hours into the future by using standard data (heart rate, physical activity, etc.) from fitness devices (like Fitbit, Oura ring, etc.) and food intake (type and quantity). This data is used for coaching and connection with service providers to manage disease better.

FreshSense

FreshSense is an advanced sensor that monitors real-time data about ingredients and inventory by measuring factors like temperature, gas, and humidity. These factors can be used as indicators to predict expiration dates and ingredient freshness. Targeted toward households, restaurants, and grocery stores, this data can be sent directly to our application, which utilizes AI algorithms to provide data regarding spoilage dates, real-time updates, alerts, and recommendations on optimal storage conditions or locations.

Authenticlo

Picture finally buying that Louis Vuitton purse you've always wanted just to find out it was fake. Or being a fashion brand owner that has lost sales due to counterfeit goods. Authenticlo is an authentication solution designed to safeguard both brands and consumers from counterfeiting; an industry worth three trillion dollars. We achieve this through NFC technology, which is installed into products and can verify the authenticity of an item through a single tap.

Bright Box

Bright Box is a wellness subscription company that provides menstruation care packages for girls and women. These subscription boxes also include a diverse array of self-care products, treats, and toys, to make menstruation convenient, affordable, and fun!