



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

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SATHYAMANGALAM - 638401 | ERODE DISTRICT | TAMILNADU INDIA



BIT - INNOVATION AND STARTUP

THE LATEST NEWS | VIEWS &
ANNOUNCEMENTS - November 2023

BIT - STARTUP
QUARTERLY NEWS BULLETIN

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FACULTY & STUDENTS STARTUP

Incharge: Mr. S. Sathish Kumar

No. of Products Completed 01

No. of Ongoing Products 02

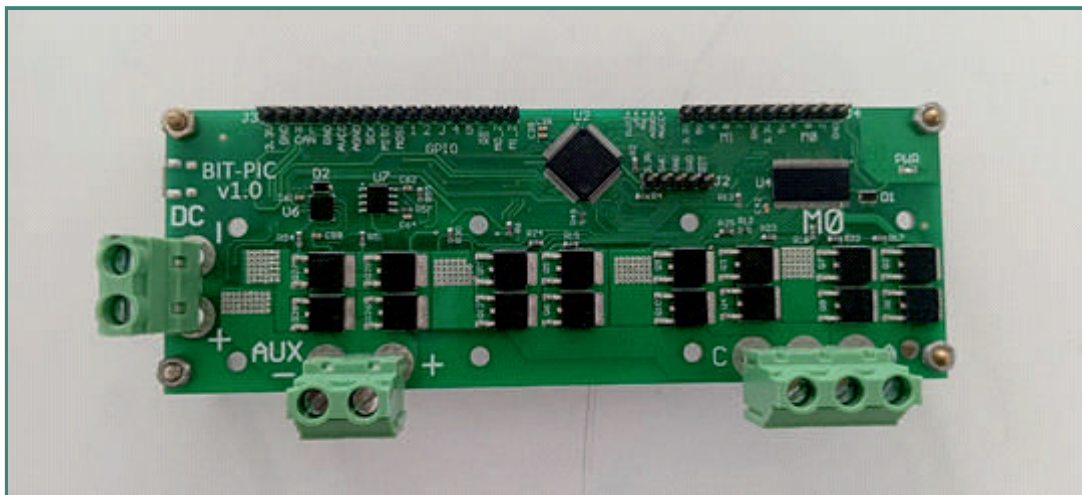
Contact : sathishkumars@bitsathy.ac.in | 9942130500

Objective of the Firm:

To develop future technology in e-Mobility and all accessories required for e-Mobility on our campus. And to empower Electrical and Electronics Engineering students with technical skills.

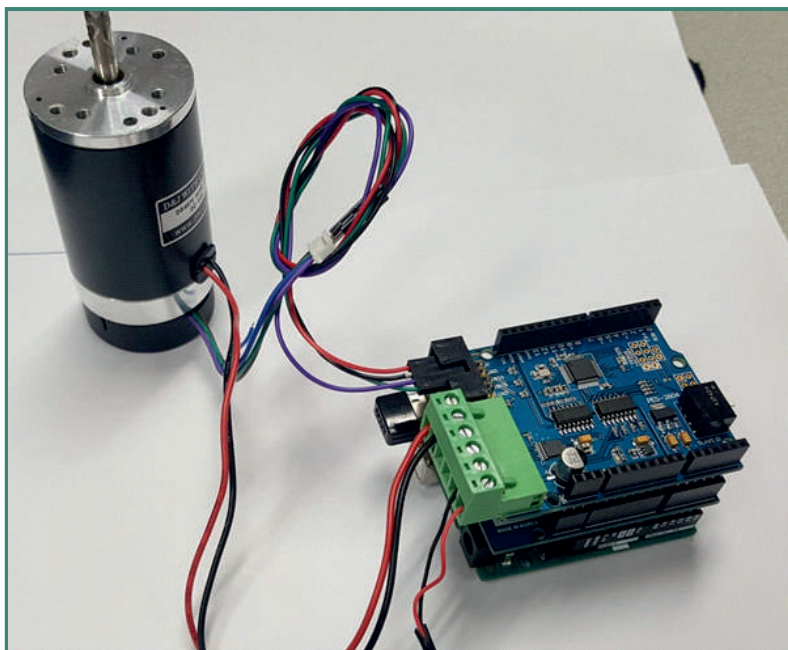
BLDC controller

A Brushless DC (BLDC) motor controller is a crucial component managing the operation of BLDC motors, widely employed in applications like robotics, electric vehicles, appliances, and industrial automation for their efficiency and reliability. Unlike brushed DC motors, BLDC motors utilize electronic commutation, eliminating the need for brushes. The controller comprises several key features and components. The power stage, employing power transistors in a three-phase bridge configuration, controls current flow in the motor windings, determining motor direction and speed. A microcontroller or digital signal processor (DSP) acts as the controller's brain, processing feedback from sensors to regulate the power stage for desired motor performance. Feedback sensors, such as Hall effect sensors, encoders, and resolvers, provide crucial information about rotor position and speed for precise control. Control algorithms, whether sensor-based or sensorless, regulate motor speed, torque, and position. Additionally, communication interfaces like UART, SPI, or CAN facilitate external system communication, proving beneficial in scenarios requiring motor Synchronization or remote control.



Sewing Machine Motor Control

Effective sewing motor speed control is a vital component of sewing machines, offering users the flexibility to tailor their stitching pace to individual preferences and the demands of diverse sewing projects. Typically, this control is facilitated through a motor control system, with electronic advancements playing a pivotal role in refining precision and adaptability. This system, equipped with a microcontroller or a specialized motor control unit, interprets user commands and modulates the sewing motor's power output accordingly. The significance of seamless acceleration and deceleration cannot be overstated, as these aspects contribute to a smoother and more enjoyable sewing experience. To uphold safety standards, sewing machines often incorporate features such as emergency stop buttons and measures to prevent sudden acceleration, mitigating the risk of accidents and ensuring a secure and user-friendly environment.



Our Future Plans

The design and development of home automation systems using computer vision (CV) technology represent a cutting-edge approach to enhancing the efficiency and convenience of residential living. By integrating CV algorithms into the system, homes can "see" and interpret their surroundings, allowing for intelligent automation of various tasks. For example, CV can be employed to recognize and respond to human presence, enabling automated lighting and climate control adjustments based on occupancy. Additionally, CV can be applied to identify specific gestures or facial expressions, providing a natural and intuitive interface for residents to interact with the smart home. This fusion of CV with home automation not only streamlines daily routines but also contributes to energy conservation and a more personalized living experience.

FAB SOLUTION

Incharge: Mr. K.N. Karthick

No. of Products Completed 02

No. of Ongoing Products 02

Contact : karthickkn@bitsathy.ac.in | 9952272735

Objective of the Firm:

To be the top-notch provider of innovative and high-quality products and technical accessories designed by our seasoned professional members using state-of-the-art products and manufacturing processes.

Kids Convertible Bicycle



Foldable tricycles are a practical solution for kids who love riding but have limited space. They can be quickly folded and unfolded, making them easy to carry and store. These tricycles come in various sizes and designs, all sharing the convenience of foldability. They are perfect for children who need to bring their tricycles on trips or for those living in small spaces. The portability of foldable tricycles is a significant advantage, allowing kids to move them around effortlessly and store them in tight spaces. Additionally, their three-wheel design provides enhanced stability, making them ideal for younger riders. Maintenance is a breeze with simple cleaning using a damp cloth and soap. A foldable tricycle offers a lightweight, reliable, and enjoyable way for kids to explore and create lasting memories.

Monowheel Bike

The Monowheel Project represents a captivating and innovative foray into the world of unconventional transportation and engineering. At its core, this project revolves around the conception, crafting, and realization of a unique single-wheeled vehicle, commonly referred to as a monowheel. The fascination with monowheels, owing to their futuristic aesthetics and intricate engineering challenges, has persisted among inventors and enthusiasts for many years.

The primary aim of this undertaking is to bring forth a fully operational and secure monowheel that seamlessly blends form, functionality, and technical excellence. Combining mechanical, electrical, and control systems, the monowheel aspires to introduce a fresh and exhilarating mode of personal transportation. In this brief overview, we touch upon essential project facets, encompassing design considerations, safety enhancements, propulsion techniques, and potential utilization scenarios.



Three wheeler (Segway)

"The Creation of a Front-Driven Three-Wheeled Electric Segway" represents a groundbreaking venture in the domain of individual mobility and eco-friendly transportation solutions. This endeavor is dedicated to the conception, assembly, and integration of a three-wheeled Segway that adopts front-wheel drive, utilizing electricity as a sustainable and efficient mode of urban commuting. Our project serves as a testament to ingenuity, sustainable engineering, and the evolving landscape of personal transportation. This summary provides a glimpse into the multifaceted nature of the project, underscoring its commitment to pioneering a cleaner and more effective urban transportation future. For a comprehensive understanding of the project, a detailed repository of information can be found in the accompanying project documentation, encompassing design blueprints, manufacturing processes, and operational demonstrations.



Our Future Plans

This project focuses on the construction of a front-driven three-wheeled electric Segway, with a primary emphasis on the innovative design to attain the highest levels of stability, agility, and rider comfort. The project places equal importance on both aesthetic attractiveness and real-world usability.

FIRST CHOICE AIR CONDITIONING SOLUTIONS

Incharge: Dr. M. Ravikumar

No. of Products Completed **02**

No. of Ongoing Products **04**

No. of Products Sold **01**

Contact : ravikumarm@bitsathy.ac.in | 9786079032

Objective of the Firm:

- To develop diverse designs and solutions for real-time problems in our domain and to address social problems.
- To provide high-quality service and maintenance support at a low cost in the area of renewable energy and HVAC.
- To generate revenue by doing consultancy work for industries/ commercial sectors.

Geothermal Heat Pump



Geothermal heat pumps (GHPs) are renowned for their efficiency and environmentally friendly approach to heating and cooling buildings. They harness the earth's natural temperature to absorb heat in winter and release it during summer, resulting in energy savings and a notable reduction in greenhouse gas emissions when compared to systems relying on fossil fuels. This project focuses on the development of a GHP tailored specifically for heating purposes, utilizing a refrigerant and heat-based design to achieve exceptional efficiency and performance. Additionally, the project delves into the outcomes of laboratory and field tests carried out on the GHP. The laboratory tests demonstrate that the GHP can achieve a coefficient of performance (COP) of up to 5.0, meaning it can produce five units of heat for every unit of electricity consumed. On the other hand, field tests show that, when compared to an air-source heat pump, the GHP can reduce heating energy consumption by as much as 50%.

Solar Pond



To assess the temperature distribution and thermal efficiency of a Trapezoid Salty Gradient Solar Pond (TS GSP), a solar pond was constructed with specific dimensions: a top surface area of $1.219 \times 1.219 \text{ m}^2$, a bottom surface area of 0.42 m^2 , and a depth of 0.76 m . The top surface of the solar pond is shielded by a double glass cover to prevent losses from evaporation and convection. To optimize sunlight absorption during brighter hours, an aluminum sheet reflector is used on the solar pond's top surface. The reflector's position is manually adjusted in stages to track the sun and maximize direct radiation on its surface. These square solar ponds share the same surface area, volume, height, and square solar ponds with matching height and volume as the trapezoidal solar pond.

As per the experimental findings, the normal temperature of the solar pond with the double glass cover is 44.2°C . When the solar pond is covered with the double glass cover, the temperature increases to 55°C .

Our Future Plans

The demand for product fabrication services from poultry farms has surged, prompting an expansion into servicing refrigerators and air conditioning units. Additionally, there are plans to delve into projects focusing on the installation of photovoltaic power plants, catering to both residential and agricultural needs. This diversification showcases a strategic approach to meeting a broader range of service requirements in multiple sectors.

HEART2ART

Incharge: Dr. Subrata Das

No. of Products Completed 02

No. of Ongoing Products 01

Contact : subratadas@bitsathy.ac.in | 7676803049

Objective of the Firm:

- To make creative handmade products
- To make environment friendly products
- To design and develop sustainable products that meets the unceasing future

Ladies Hand Bags

Ladies' handbags are meticulously crafted using repurposed materials to champion sustainable fashion. Waste fabrics are recycled and transformed into these handbags, featuring unique screen-printed designs. The addition of adjustable straps provides a personalized level of comfort and a lightweight build. These luxury handbags are characterized by exceptional craftsmanship, starting from the finest raw materials to the bag's actual composition, whether it's leather, canvas, or other high-quality materials. They are created by the most skilled artisans in the industry.



Pencil Pouch

Pencil pouches are thoughtfully crafted by utilizing repurposed materials to advocate for sustainable fashion. Waste fabrics are recycled and transformed into these pencil pouches, where the yarn is dyed using natural dyes, introducing elegant striped patterns in the final product. These luxury pencil pouches are distinguished by their exceptional craftsmanship, reflecting the highest quality standards in their creation.



Our Future Plans

Our vision is to empower women with a versatile, trendsetting accessory that not only complements their style but also enhances their everyday experiences, fostering a new era of sophistication and utility in the world of fashion

Incharge: Mr. L. Gowrishankar

No. of Products Completed 02

No. of Ongoing Products 02

Contact : gowrishankar@bitsathy.ac.in | 9487419225

Objective of the Firm:

- To develop healthy food with fortified nutraceuticals
- To enhance the quality of functional food using the concept of waste to wealth
- To create a customer base through WhatsApp and other social networking sites.
- To develop app-based order and bill maintenance

Black Rice and Carrot Biscuits



Biscuits, a beloved snack, have traditionally contained refined flour, sugar, and fat, which often give rise to health concerns like obesity, diabetes, and heart disease. However, the incorporation of black rice and carrots in their composition provides a splendid solution to this issue. These two ingredients are rich in antioxidants, vitamins, minerals, and fiber, delivering not only delectable taste but also substantial health advantages. Black rice, sometimes referred to as forbidden or purple rice, owes its deep color to anthocyanins, powerful antioxidants that protect cells from oxidative stress and inflammation, reducing blood sugar, cholesterol, and blood pressure. Furthermore, black rice is a source of protein, iron, and other essential nutrients. Carrots, with their vibrant beta-carotene content, can be converted into vitamin A within the body, playing a critical role in vision, immunity, skin health, and wound healing. Carrots also contain lutein and zeaxanthin, which safeguard the eyes from degeneration and cataracts, in addition to providing fiber, potassium, vitamin K1, and vitamin B6.

Through a careful formulation process, a combination of black rice flour, wheat flour, sugar, butter, baking powder, salt, water, and carrot puree was meticulously developed. The resulting biscuits exhibited outstanding physical, chemical, and sensory characteristics. These groundbreaking biscuits offer an irresistible guilt-free snacking experience, ensuring both flavor indulgence and a nutritious boost. They are ideal for health-conscious individuals in search of wholesome alternatives to traditional snacks.

Nutri Tea Powder

Nutri Tea Powder is a carefully crafted fusion of red spinach, beets, and lemon, thoughtfully designed to elevate your overall well-being. Red spinach, abundant in anthocyanins, serves as a robust antioxidant, safeguarding cells from oxidative stress, mitigating inflammation, and promoting cardiovascular health. Additionally, it provides protein and iron while helping regulate blood sugar and cholesterol levels. Beets, with their vibrant betanin content, enhance blood circulation, boost athletic performance, and improve digestion through essential minerals and fiber.



Lemon, a powerhouse of vitamin C, bolsters immunity and skin health, and compounds like hesperidin and diosmin strengthen blood vessels, preventing atherosclerosis. The zesty lemon flavor enhances the tea's taste. Preparing this elixir is a breeze—simply mix a teaspoon of Nutri Tea Powder with hot water, give it a good stir, and savor. You can customize it with honey, making it a daily ritual packed with natural goodness.

This vegan and gluten-free creation is free from artificial additives, ensuring a pure and natural experience. Welcome the invigorating blend of red spinach, beets, and lemon into your daily routine, revitalizing your senses and energizing your body. Nutri Tea Powder is more than just tea; it's a transformative holistic wellness experience waiting to become a part of your everyday regimen.

Foxtail Millet Muffins

Foxtail millets are a nutritional powerhouse, packed with protein, fiber, antioxidants, and essential minerals, offering a plethora of health advantages. Despite their impressive nutritional profile, they often go unnoticed due to their unfamiliar taste and texture. To address this, an optimization process has been developed, involving experimentation with various elements such as types of flour, sugars, fats, leavening agents, liquids, and additives.



These techniques include blending millet flour with wheat, rice, or oat flour to enhance the muffins' texture and flavor. Additionally, stabilizers like xanthan gum or enzymes are incorporated to adjust the batter's viscosity and improve the muffin's overall structure. Furthermore, the inclusion of fruits, nuts, seeds, or spices adds both variety and increased nutritional value. It's crucial to make adjustments to baking temperature and time, as these factors have a significant impact on the appearance and texture of the muffins.

These innovations result in muffins that successfully combine taste, texture, and nutritional benefits, transforming foxtail millets into a delightful and healthy snacking option.

Extruded Product From Proso Millet

The process of producing extruded snacks involves pushing a dough or batter through conditions of high temperature and high pressure, giving it distinct shapes, textures, and flavors. Proso millet, a highly nutritious grain with benefits such as blood glucose regulation, improved digestion, and a rich supply of essential amino acids, vitamins, and minerals, is a key ingredient in these snacks. To create these snacks, proso millet is combined with water, salt, sugar, spices, oil, and various additives. This mixture is then subjected to extrusion through a machine equipped with a barrel, screw, die, and cutter, shaping it into the desired forms.



After extrusion, the product undergoes a drying and cooling process before being packaged. This not only extends its shelf life but also reduces moisture content and microbial growth. Crafting extruded snacks from proso millet not only enhances their sensory characteristics, including color, flavor, texture, and crispiness, but also broadens their range of uses, creating attractive, value-added products for a diverse market.

These snacks offer a convenient, ready-to-eat option, suitable for consumption on their own or alongside dips, sauces, or toppings. Furthermore, they present a healthier alternative to snacks produced from refined flours or low-nutrient cereals. By incorporating proso millet, these extruded snacks not only become viable but also advantageous, harnessing the potential of this ancient grain.

GLUTEN FREE COOKIES FROM COMPOSITE FLOUR

For individuals dealing with celiac disease or gluten sensitivity and needing to avoid gluten present in wheat, barley, and rye, gluten-free cookies are a valuable option. These cookies are made using composite flour, which is a combination of various gluten-free flours like rice, corn, sorghum, quinoa, and almond. This blend results in cookies with a wide range of flavors and textures, further enhanced by the addition of ingredients like eggs, butter, and spices, catering to various taste preferences.



Composite flour not only serves as a wheat substitute but also enriches the cookies' nutritional profile by providing essential minerals, vitamins, dietary fiber, and protein.

These cookies are versatile, meeting diverse dietary requirements, accommodating gluten intolerance, boosting nutritional value, and cutting costs by utilizing locally available flours. They are a perfect choice for anyone adhering to a gluten-free diet, offering delicious and wholesome options for a variety of occasions.

Our Future Plans

We intend to develop food products in the future that leverage the nutritional advantages of millets, recognizing their substantial potential for enhancing the well-being of consumers.

Incharge: Mr. S. K. Dhinesh

No. of Products Completed 05

No. of Ongoing Products 02

Contact : Dhineshsk@nitsathy.ac.in | 9715367724

Objective of the Firm:

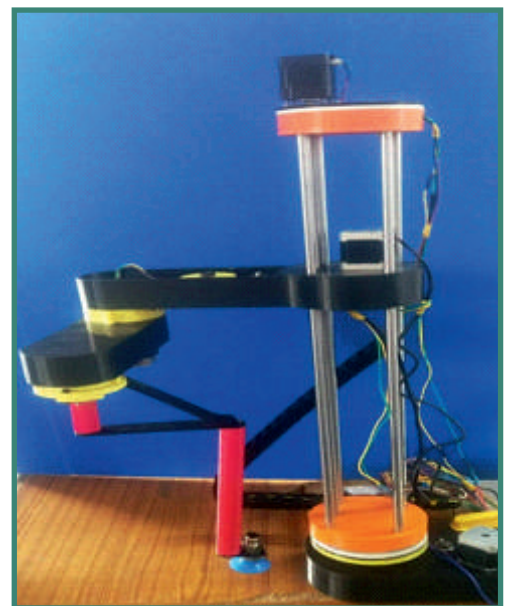
- To design and fabricate a low-cost CNC based machines to match the needs of the customer.
- To develop next-generation machines that would otherwise be impossible/impractical to manufacture, including the creation and incubation of new applications for additive manufacturing and attendant first-to-market advantages.

SCARA Robot for Pick and Place Application

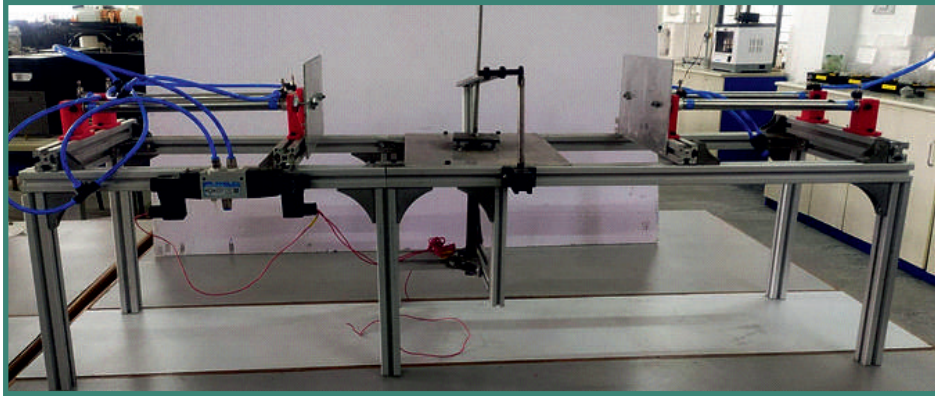
Our project introduces a specialized SCARA (Selective Compliance Assembly Robot Arm) robot designed specifically for precision pick and place tasks. This SCARA robot features four degrees of freedom, driven by four NEMA 17 stepper motors to ensure precise control over its movements. Additionally, it utilizes a servo motor to govern the end effector or gripper, enabling delicate object handling.

At the heart of our SCARA robot lies an Arduino UNO board, complemented by a CNC shield and four A4988 stepper drivers, facilitating precise control over the stepper motors. To provide an intuitive user experience, we have developed a user interface using the Processing development environment. This interface offers both Forward and Inverse Kinematics control. Forward Kinematics allows users to manually adjust joint angles to achieve the desired end effector position. In contrast, Inverse Kinematics enables users to specify the desired end effector position, with the program automatically

calculating the required joint angles. Furthermore, our robot is capable of autonomous operation, allowing users to save and execute predefined movements or positions. The user interface offers customization options for speed and acceleration, enabling adaptability to specific pick and place requirements. This SCARA robot represents an advanced and versatile solution for industries that require precise and repetitive pick and place operations.



Paratha Smoothing Machine



Our project is centered around the development of a Paratha Smoothing Machine that harnesses pneumatic technology to enhance the paratha preparation process. This innovative machine is engineered to automate and improve upon the conventional manual method of smoothing parathas. It achieves this by employing pneumatic pistons to apply consistent pressure on both sides of the paratha, resulting in a uniformly cooked and textured final product.

At the core of our Paratha Smoothing Machine are the pneumatic pistons, which play a pivotal role in this procedure. Users can adjust these pistons to control the pressure, allowing for customization of the smoothing process to accommodate variations in paratha thickness or individual preferences.

One of the standout attributes of our machine is its efficiency. By automating the smoothing process, it significantly reduces the time and effort required for preparing parathas. This makes it an ideal solution for both commercial and domestic settings where quick and consistent results are of paramount importance.

The Paratha Smoothing Machine is poised to transform the traditional method of crafting parathas. Not only does it ensure uniform cooking, but it also enhances productivity and minimizes the need for manual labor. Whether it's employed in a restaurant kitchen or a home environment, it provides a pragmatic and efficient solution for effortlessly achieving perfectly prepared parathas.

Our Future Plans

Our laboratory is fully committed to remaining at the forefront of 3D printing technology by continuously exploring and embracing the latest advancements in additive manufacturing. Our primary objective is to enhance the speed, precision, and scalability of our 3D printers, enabling us to efficiently produce intricate and complex designs.

Acknowledging the increasing significance of drones in sectors such as agriculture, construction, logistics, and surveillance, we have set our sights on strengthening our capabilities in drone manufacturing.

Our research initiatives will extend across various areas, encompassing autonomous navigation, human-robot interaction, machine learning, and computer vision.

SKY VIEW

Incharge: Dr. D. Lakshmanan

No. of Products Completed 02

No. of Ongoing Products 01

Contact : lakshmanan@bitsathy.ac.in | 90474 64901

Objective of the Firm:

The main aim of Sky View is to develop quality drone parts and provide expert drone services to meet customer requirements. We build drones for applications like Agricultural Drones, Pesticide Spraying Drones, Crop Monitoring Drones, Surveillance Drones, Drones Camera, and Photography Drones. As a service provider, the company offers solutions in Drone Manufacturing, Aerial Photography, Surveillance Drone, and Digital Photography services as per the needs. We also aim to provide intelligent solutions to the industry by promoting the usage of drones.

Blended wing UAV



A fixed-wing UAV boasting a blended configuration stands as a testament to innovative design, harnessing aerodynamic stability as its ace. By seamlessly integrating various elements, this aerial marvel ensures smoother flights, enhanced maneuverability, and heightened efficiency. Its design, carefully tailored to reduce drag and optimize performance, marks a leap forward in unmanned aerial vehicle engineering, promising a future where stability meets precision in the skies.

NavStar Drone



Innovative in design and purpose, the compact, high-tech drone is revolutionizing healthcare accessibility in remote areas. Customized for autonomous operation, this marvel of engineering swiftly navigates challenging terrains, carrying essential medical supplies to isolated communities. With precise GPS guidance and a secure payload compartment, it ensures timely and safe delivery of medicines, bridging the gap between healthcare facilities and those in need, all while symbolizing the power of technology in humanitarian efforts.

Our Future Plans

Development of a quadcopter equipped with an integrated night vision goggle system for target identification during nighttime is currently in progress.

Incharge: Dr. M. Kirupa Shankar

No. of Products Completed 01

No. of Ongoing Products 01

Contact : kirupasankarm@bitsathy.ac.in | 9994624674

Objective of the Firm:

- To develop a healthy and quality product.
- To understand the significance of traditional food and cater to the needs of the consumers.

Mycopro Cookies

Mycoprotein nutritional cookies are a variety of cookies crafted using a wealth of nutritious ingredients known for their health benefits. These Mycoprotein Cookies typically contain lower levels of fat, cholesterol, and sugar compared to traditional cookies. The key ingredient in these cookies is oyster mushroom, which is rich in active compounds that contribute to their health-promoting properties.



Mycopro Healthmix

The Mycoprotein Nutritional Health Mix Powder is a combination of natural multigrains, whole grains, and the potent nutrients derived from oyster mushrooms. This blend offers a well-rounded and nutritious dietary option, providing essential vitamins, proteins, and minerals necessary for the growth and development of the body. This Mycopro Plus Powder Health Mix is a healthy and nourishing beverage suitable for individuals of all age groups.



Our Future Plans

Introducing Mycopro Plus Butter, a nutritionally dense spread that is abundant in protein, fiber, minerals, and essential vitamins crucial for growth, development, and overall well-being. This mycoprotein-based butter is conveniently paired with bread and offers a high-fat content that can be adjusted to suit an individual's body weight, promoting healthy weight gain. Consuming this butter not only helps reduce appetite but also lowers the risk of heart disease and contributes to better blood sugar management.

STUDENT'S STARTUP



Within our college campus, a vibrant ecosystem of student start-ups has emerged, totalling 15 innovative ventures. These dedicated student entrepreneurs have been burning the midnight oil, tirelessly working towards the success of their start-ups. The collective effort has resulted in an impressive revenue generation exceeding 2 lakhs in just the past few months. These budding businesses showcase the entrepreneurial spirit thriving within our academic community, emphasizing the potential for growth and success when driven individuals come together to pursue their innovative visions.

ATMAN GROUPS

"Innovate Elevate Dominate "

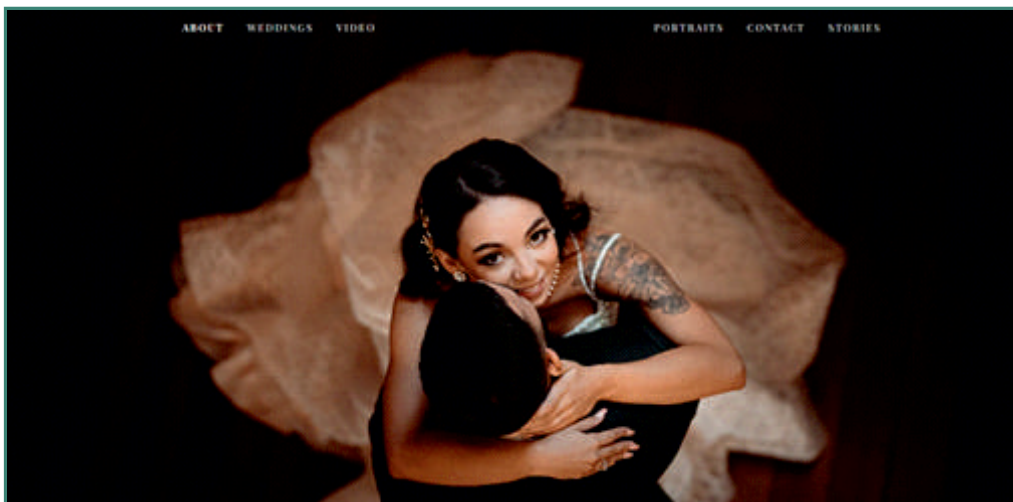
Vision of Company

our objective is to empower businesses and individuals with holistic solutions that transcend boundaries and drive success. We aim to facilitate seamless imports and exports, elevate digital marketing and branding strategies, and supercharge sales efforts. Our mission is to become a trusted partner in global commerce, offering innovative solutions that not only meet our clients' needs but also anticipate and adapt to future trends. We are committed to fostering growth, sustainability, and excellence in every facet of our business, driven by the spirit of youthful enthusiasm, entrepreneurial spirit, and unwavering dedication.

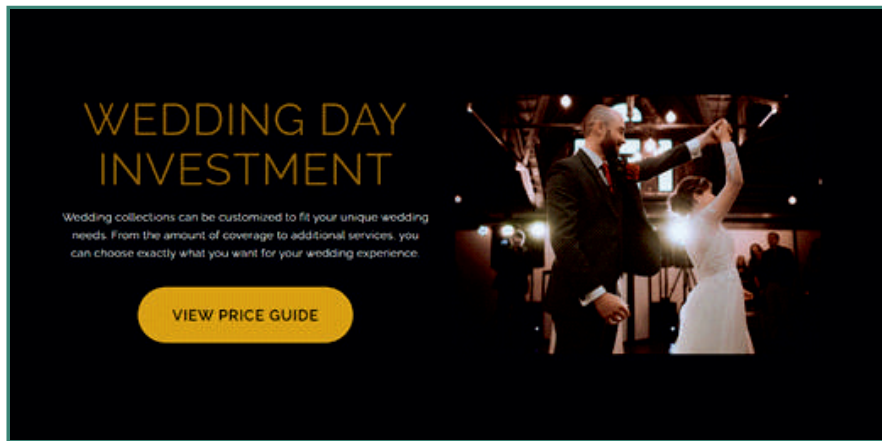
DREAM PROJECT "CONNECT "

We are Developing an application regarding academic activities which connects everyone Academically in a good manner. On this Social Media world everyone is distracting from academics and failed to improve their skills and talents. this caused a lack of talents among youngsters. So, the Companies were disappointed to identify the skilled One for recruiting and tackle the Solution. We are Creating a platform to make everyone to compete with each other academically with their skills and to stop the distraction. The Main Objective of this platform is not Identify the Skilled One, bringing back the interest to grow up their individuality by their skills and making the Nation Proud by Various Innovation of them using this Platform.

Hari Photography – Portfolio



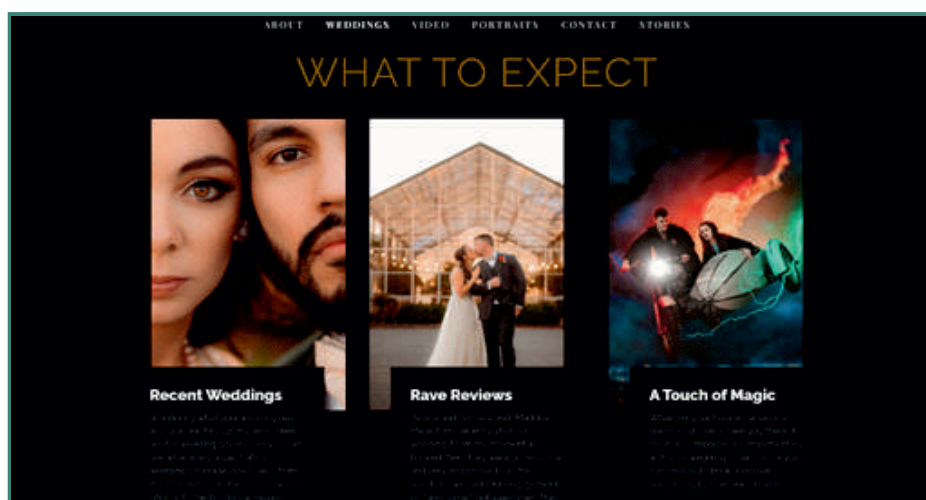
In today's digital age, establishing a strong online presence is essential for businesses and creative professionals alike. This is an overview of the website built for "Hari Photography," a project undertaken by Atman Groups, a dynamic startup company specializing in web development. "Hari Photography" is a passionate endeavour by a talented photographer named Hari, seeking to showcase his artistry and connect with a broader audience. Atman Groups collaborated with Hari to bring his vision to life, resulting in a visually captivating and user-friendly website. Project Value (15000)



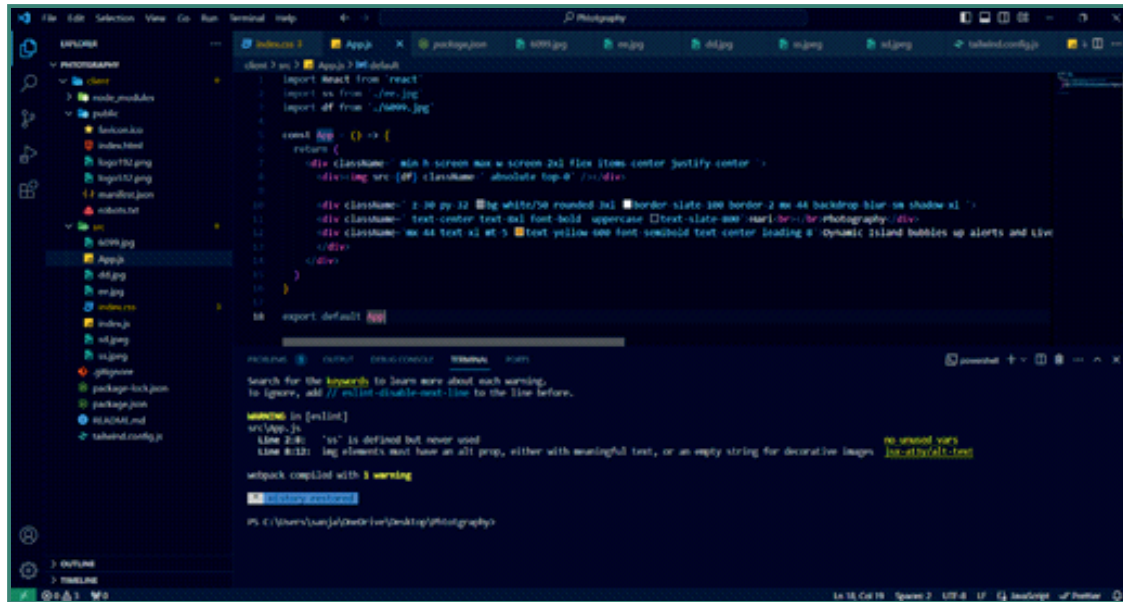
The website is designed to serve as an online portfolio and a virtual hub for photography enthusiasts, clients, and art lovers. Key features include:

- **Stunning Visual Showcase:** The website boasts a visually appealing and responsive design that highlights Hari's photography skills. Visitors can easily navigate through various galleries, each dedicated to a different theme or photographic style.
- **User-Friendly Interface:** Atman Groups paid special attention to user experience, ensuring that the website is accessible, responsive on various devices, and easy to navigate, allowing visitors to explore Hari's work seamlessly.
- **Dynamic Content Management:** The website's backend is equipped with a robust content management system, allowing Hari to effortlessly update and upload new photographs, write blogs, and maintain a portfolio that evolves with his growth as a photographer.
- **Contact and Booking Options:** Potential clients can easily get in touch with Hari through integrated contact forms and booking options, enhancing his ability to convert website visitors into paying customers.
- **Social Media Integration:** To expand Hari's reach and increase engagement, the website includes social media integration, making it simple for visitors to share their favourite photographs and connect with Hari on various platforms.

Atman Groups' role in developing the "Hari Photography" website exemplifies their expertise in web development and their commitment to empowering startups and creative professionals with a strong online presence. This project showcases the synergy between a visionary photographer and a skilled web development team, ultimately resulting in an aesthetically pleasing and functionally robust platform for visual storytelling.



In conclusion, the "Hari Photography" website is a testament to the power of collaboration between Atman Groups and Hari. It successfully fulfills the goal of creating an online space that not only showcases the artistry of Hari but also enables him to expand his clientele and engage with a global audience. This abstract offers a glimpse into the innovative journey of Hari Photography's online presence, highlighting the critical role played by Atman Groups in turning this vision into reality.



TECHNOLOGIES USED

React.Js

React is the library for web and native user interfaces. Build user interfaces out of individual pieces called components written in JavaScript.

Next.Js

The React Framework for the Web. Used by some of the world's largest companies, Next.js enables you to create full-stack Web application

Tailwindcss

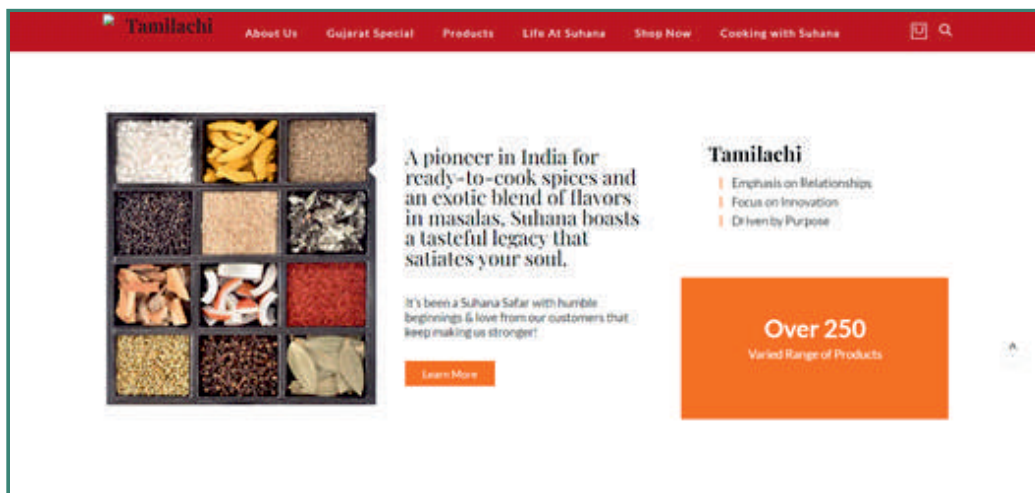
Tailwind CSS works by scanning all of your HTML files, JavaScript components, and any other templates for class names, generating the corresponding styles and then writing them to a static CSS file. It's fast, flexible, and reliable — with zero-runtime

Framer-Motion

Framer Motion. Complete documentation of the Framer Motion animation library. A production-ready motion library for React

Tamil Food Products – An E-commerce Web Application

a compelling online presence and strategic digital marketing are pivotal for businesses to expand their reach and share cultural treasures with a global audience. This abstract provides insights into the comprehensive transformation of "Tamil Food Products," a traditional and natural food products company, undertaken by Atman Groups, an innovative startup specializing in web development and digital marketing. Project value(10,000)

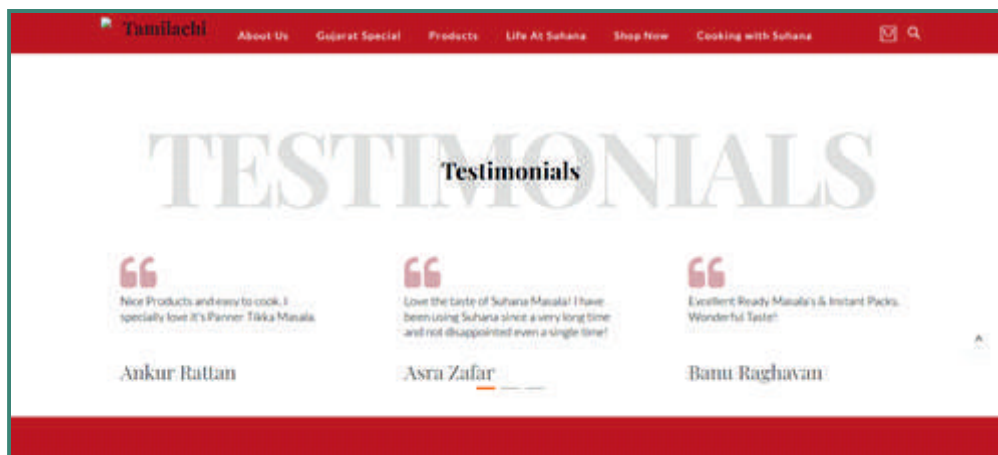


"Tamil Food Products" is a culinary venture deeply rooted in the rich traditions of Tamil cuisine, offering a diverse array of authentic and natural food products. Atman Groups worked closely with the creators of "Tamil Food Products" to create not only a visually enticing and informative website but also to strategize and execute a digital marketing campaign to reach a wider audience.



- Key components of the project include:
- **Cultural Aesthetics:** The website design is a tribute to the vivid tapestry of Tamil cuisine, celebrating heritage through colors, patterns, and images.
- **User-Centric Interface:** A user-friendly design ensures that visitors can effortlessly explore the range of natural food products, discovering their origins and culinary significance.

- **E-Commerce Integration:** Seamless e-commerce functionality allows customers to purchase traditional Tamil food products securely and efficiently.
- **Targeted Audience Engagement:** Atman Groups crafted a digital marketing strategy that identified and engaged with an audience passionate about authentic, natural food products.
- **Content Marketing:** A content-rich approach included blog posts, articles, and multimedia content, sharing the stories, recipes, and cultural importance of Tamil cuisine.
- **Social Media Integration:** The campaign utilized social media channels to amplify brand awareness and encourage customer interaction.
- The "Tamil Food Products" project is a testament to Atman Groups' dual expertise in web development and digital marketing, empowering businesses to harness the full potential of their online presence. This project showcases the harmonious collaboration between the creators of Tamil culinary treasures and Atman Groups, culminating in a culturally authentic and digitally efficient platform for sharing the richness of Tamil food culture.



- In conclusion, the "Tamil Food Products" website and digital marketing campaign represent a fusion of technology and tradition. This abstract provides a glimpse into the innovative journey of "Tamil Food Products," highlighting the pivotal role played by Atman Groups in bringing this culinary vision to life and sharing Tamil culinary traditions with a global audience while fostering digital engagement and growth.

Technologies Used

- **React.Js**
- React is the library for web and native user interfaces. Build user interfaces out of individual pieces called components written in JavaScript.
- **Next.Js**
- The React Framework for the Web. Used by some of the world's largest companies, Next.js enables you to create full-stack Web application
- **Tailwindcss**
- Tailwind CSS works by scanning all of your HTML files, JavaScript components, and any other templates for class names, generating the corresponding styles and then writing them to a static CSS file. It's fast, flexible, and reliable — with zero-runtime

- **Framer-Motion**

- Framer Motion. Complete documentation of the Framer Motion animation library. A production-ready motion library for React.

ATMAN Groups

Managing Director - SANJAI G

Head of the Department - DHIVYAPRAKASH B

Marketing Manager - VIJAY KRISHNA K

Business Consultant - VAHIN RS

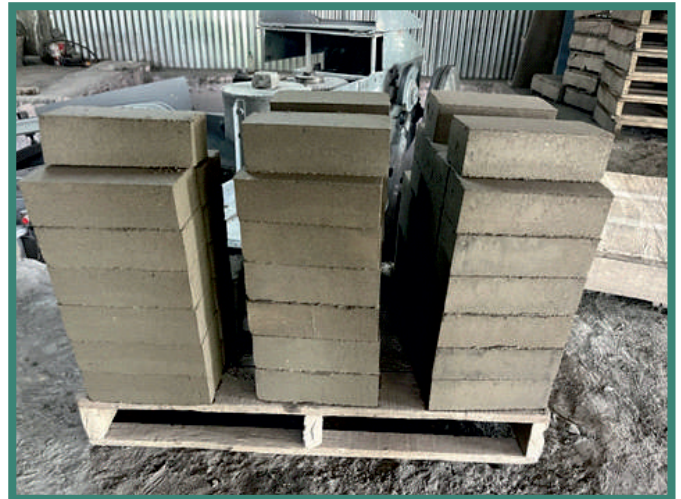
Developers - VIJAYA BAASKAR , VISANTH , THARUN AAGASH KS

DHAR3 CONSTRUCTIONS

Concept Of The Solution

- Reduce and Recycling of construction waste.
- Development of low cost building blocks.
- Without Destroying of natural resources.
- Cost efficient.
- Without need of brick kilns.

STUDENT NAME - **HARI PRAKASH J**



We have successfully developed a brick with unique mixes that has not been featured on the internet until now. This innovative brick is not only cost-effective but also boasts higher strength compared to any other brick currently available in the market. Our groundbreaking product has been put into use at our college for environmental testing purposes.

Upon completion of the initial testing phase, the subsequent stages of testing will be conducted in succession. We are excited about the potential applications and benefits our brick could bring to various industries. Stay tuned for further updates on our progress.

DI-GRO SOLUTIONS

Completed Projects:

Logo Design for Vlogger(FROZENTYM)



This project involved the creation of a distinctive logo for the YouTube channel "FROZENTYM" using Adobe Photoshop. The collaboration began with a comprehensive understanding of the YouTuber's brand identity, content niche, and target audience. Through effective communication and iterative design processes, a visually appealing and conceptually aligned logo was developed.

The design process included brainstorming, sketching, and refining ideas to ensure the logo captured the essence of "FROZENTYM" while maintaining a unique and memorable visual identity. Collaboration with the YouTuber played a crucial role, incorporating feedback and adjustments to meet their vision and preferences.

Upon the completion and approval of the final logo, a mutually agreed-upon revenue-sharing model was established. This innovative compensation structure linked the designer's compensation directly to the success of the YouTuber's content. The finalized logo was seamlessly integrated into the YouTube channel, enhancing its overall branding and contributing to the visual consistency of the content.

Logo design for a dye company:



Through an iterative design process, a vibrant and modern logo was crafted, embodying the essence of the dye industry and projecting a fresh identity. In a departure from traditional compensation models, a ground-breaking revenue-sharing agreement was established, tying the designer's payment directly to the company's financial performance following the logo implementation.

The redesigned logo, strategically integrated into the company's branding, became a focal point for marketing efforts. The visual transformation resonated with both existing and new customers, resulting in heightened market visibility and increased sales. Showcasing how a well-executed logo can serve as a catalyst for revenue generation in a competitive market.

By illustrating the tangible impact of a strategic design intervention, this study provides valuable insights for companies seeking to leverage creative solutions not only for visual rebranding but as a strategic tool for financial resurgence. The logo, strategically integrated into the company's visual identity, became a linchpin for a comprehensive marketing strategy.

The revitalized brand garnered attention, sparking renewed interest from both existing clientele and untapped markets. This surge in positive consumer perception translated into a measurable increase in revenue, showcasing the pivotal role of effective design in business revival.

It highlights the potential of a well-crafted logo not merely as a visual asset but as a strategic driver of revenue growth

Poster Design for SilverThreads Event Planners:



The journey of a budding startup in the creative design space, detailing its successful collaboration with Silver Threads Event Planners for the September Carnival. The startup, driven by a passion for visual storytelling, embarked on creating two captivating posters for the event, aligning seamlessly with the carnival's theme.

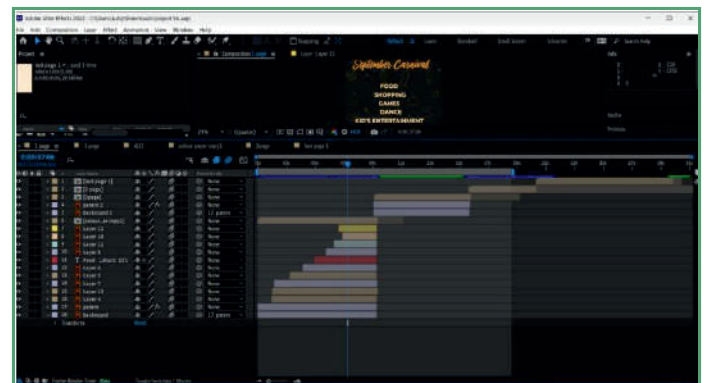
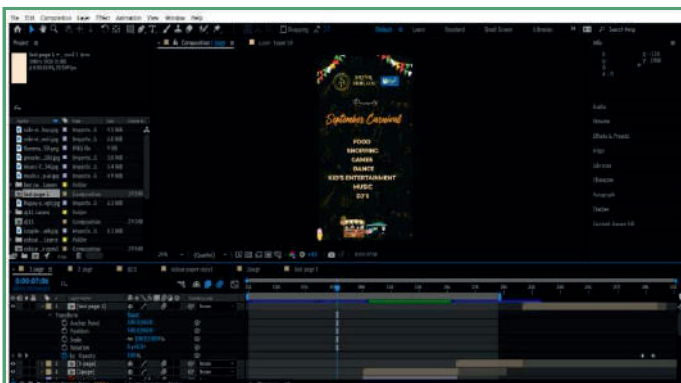
The design process involved extensive market research, collaboration with event organizers, and iterative feedback loops. The resulting posters not only captured the vibrancy and excitement of the September Carnival but also showcased the startup's creative prowess.

The unique aspect of this collaboration lay in the revenue-sharing model established with Silver Threads Event Planners, marking a departure from conventional payment structures. This innovative approach tied the startup's compensation directly to the event's success, fostering a symbiotic relationship between creativity and financial outcomes.

The design process unfolded through a strategic blend of market research, collaboration with event organizers, and an iterative design approach. The resulting posters not only resonated with the carnival's theme but also showcased the startup's distinctive creative flair.

What sets this collaboration apart is the innovative revenue-sharing model established with Silver Threads Event Planners, where the startup's compensation was intricately linked to the event's overall success. This unique arrangement fostered a mutually beneficial partnership, aligning the startup's creative efforts with tangible financial outcomes.

Video Presentation for Silver Threads Event Planners:



A detailed exploration of a startup's foray into video presentation creation, specifically leveraging Adobe After Effects, for the September Carnival organized by Silver Threads Event Planners. The startup, driven by a commitment to cutting-edge visual storytelling, opted for After Effects to infuse dynamic elements and captivating visuals into the presentation.

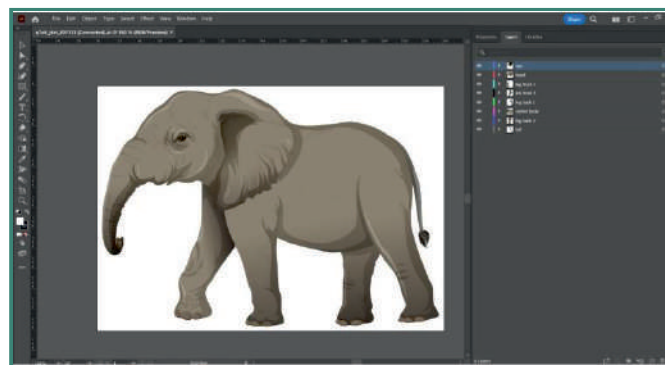
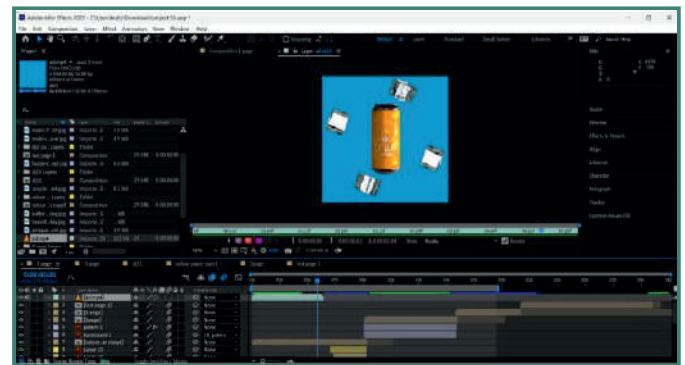
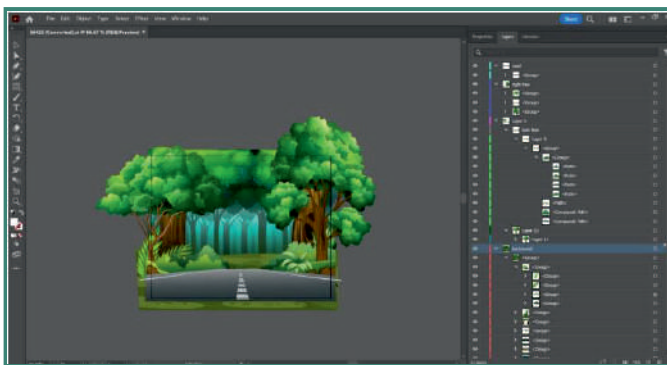
The creative process involved a strategic combination of storyboard development, motion graphics design, and seamless integration of audio-visual components. Adobe After Effects proved instrumental in elevating the video presentation, allowing for intricate animations, transitions, and special effects that aligned with the vibrant and energetic theme of the September Carnival.

This choice not only showcased the startup's technological prowess but also contributed to the creation of a visually immersive and engaging narrative. Collaborating closely with Silver Threads Event Planners, the startup seamlessly integrated the video presentation into the overall marketing strategy for the September Carnival.

The revenue generated from this collaboration stemmed from a dynamic compensation model that reflected the startup's innovative use of Adobe After Effects in enhancing the event's promotional content.

Ongoing Projects:

Animation Video for a Client(Graphic Designing):



An in-depth examination of a current project where a creative team is harnessing the synergies of Adobe Illustrator and After Effects to craft a compelling 20-second video for a client. The collaboration exemplifies the dynamic fusion of graphic design expertise and motion graphics technology to deliver a visually striking and succinct promotional piece.

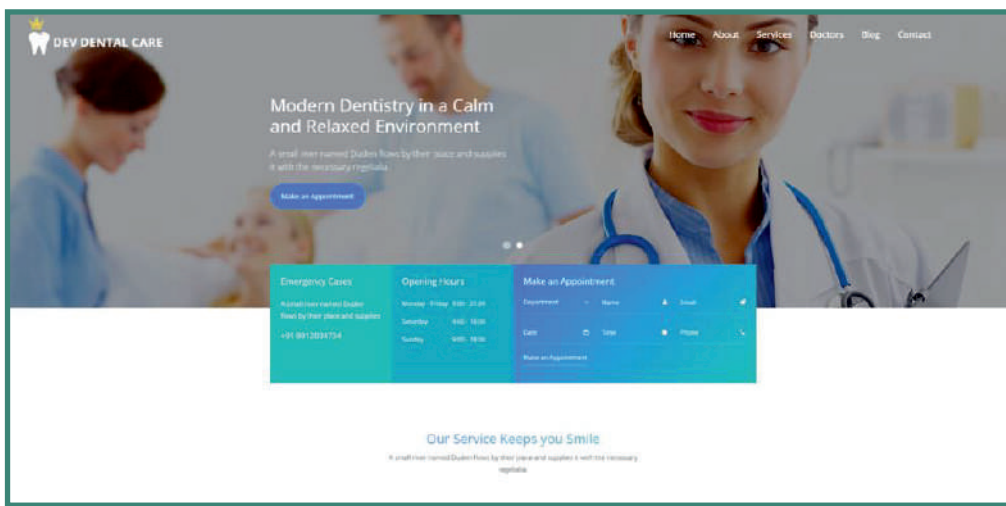
The creative process began with meticulous planning and storyboarding in Adobe Illustrator, laying the foundation for the visual narrative. Adobe Illustrator's precision in vector graphics allowed for the creation of vibrant and detailed elements that would seamlessly transition into motion.

The project then seamlessly transitioned to Adobe After Effects, where the static designs from Illustrator were brought to life through animation, transitions, and dynamic effects. The integration of After Effects added depth and engagement to the visual elements, creating a captivating sequence within the brief 20-second timeframe.

Collaboration with the client played a crucial role, with iterative feedback ensuring alignment with the client's vision and objectives. The combined capabilities of Adobe Illustrator and After Effects facilitated a seamless workflow, allowing the creative team to iterate rapidly and respond effectively to client input.

As the project nears completion, this case study provides insights into the strategic utilization of Adobe Illustrator and After Effects, showcasing their complementary roles in graphic designing and video production. The anticipated success of this 20-second video project emphasizes the power of integrated design tools in meeting client expectations and delivering impactful visual content within concise timeframes.

Front End Webpage for Dev Dental Care:



A comprehensive overview of the development process involved in creating a front-end webpage for Dev Dental Care using the Angular framework. Angular's robust capabilities for building dynamic and responsive user interfaces were harnessed to deliver an engaging and efficient online presence for the dental care clinic.

The project began with a meticulous analysis of Dev Dental Care's brand identity, target audience, and the specific functionalities required for the webpage. Angular's modular architecture facilitated the organization of components, ensuring a scalable and maintainable structure for the web application.

The development process seamlessly integrated HTML, CSS, and TypeScript within the Angular framework, allowing for the creation of a visually appealing and interactive user interface. The use of Angular's two-way data binding and dependency injection streamlined the development workflow, enhancing the overall efficiency of the project.

Responsive design principles were implemented to ensure a seamless user experience across various devices, from desktops to mobile devices. Angular's built-in features, such as Angular CLI for project scaffolding and Angular Material for pre-designed UI components, contributed to the efficiency and consistency of the development process.

Collaboration with Dev Dental Care stakeholders was facilitated through regular feedback loops, ensuring that the webpage aligned with the clinic's branding, conveyed essential information, and provided a user-friendly experience.

The Total Revenue for the Past Three Months is 8700 Rs Only

GEOJAY STRUCTURAL DESIGN

Startup Name: **GEOJAY STRUCTURAL DESIGN**

Team members: **Vignesh S (201CE147), Parthasarathy S (201CE132)**

Special lab: SLB075 – **Integrated Smart Building Lab**

Tagline: GEOJAY STRUCTURAL DESIGN- **Designing Safe, Sustainable Futures.**

Objective:

The objective of the structural design to create the safe & efficient structure than can withstand the different types of loads. To meet the aesthetics requirements of the building.

Description:

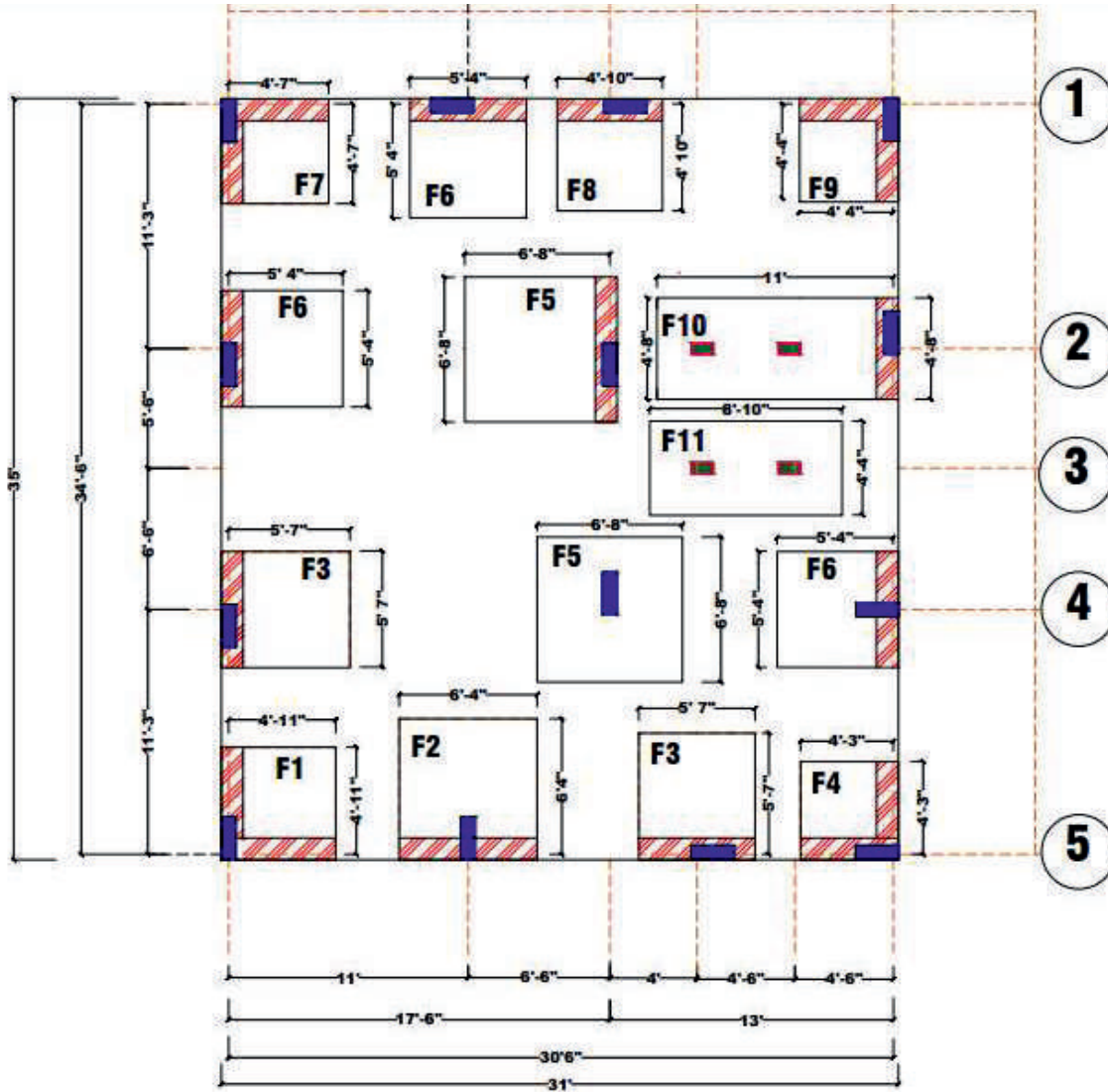
Structural design is the process of determining the strength, stability, and rigidity of a building, bridge, tower, or any other type of structure. It involves analysing the loads that a structure will be subjected to, such as its own weight, wind, earthquakes, snow, and the weight of people and equipment, and then designing a structure that can withstand those loads. Structural design also involves considering factors such as the cost, ease of construction, and aesthetics. The building is designed as per IS456-2000, IS875 Part II, SP 16, S 6. For analysis of building staad pro software were used. The result of this process is a set of drawings and specifications that describe the shape, size, and materials of a structure, as well as the details of its construction. AutoCAD software is used for Drafting the structural plan and structural elements drawings is drafted using the software. Sketchup software is used for 3D elevation for the architectural purposes.

Revenue:

We have completed 4 projects in this month, and we have generated Rs. 10,000

Projects Completed:

1. G+3 Residential building in Coimbatore

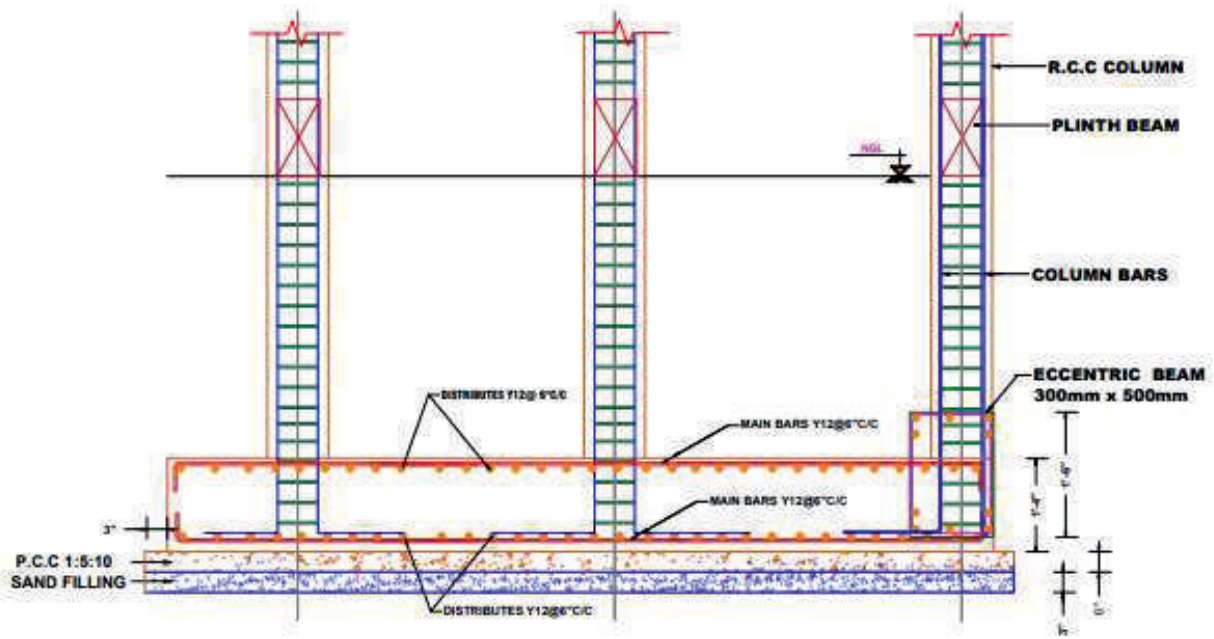


FOOTING LAYOUT

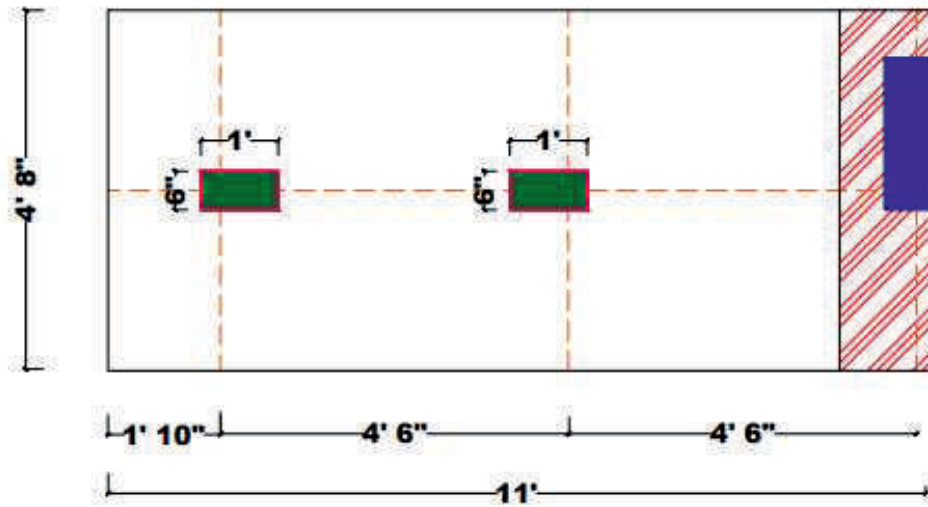
NOTE:-

1. All dimensions are in "Feet & Inches".
2. Do not scale this drawing.
3. Use M25 grade concrete & Fe500 steel.
4. Use clear cover: 40mm for columns, 25mm for beams, 50mm for footing.
5. SBC of soil considered = 300 kN/sqm.
6. Lap length for bars in tension = 57 dia.
7. Spacing of the lateral ties 6" C/C.
8. The consultant is not responsible for the failures due to improper execution of work at site

CLIENT		SCALE AND SHEET SIZE AS SHOWN
ENGINEER		PROJECT TITLE: RESIDENTIAL BUILDING
DRAWING TITLE: FOOTING LAYOUT		



CROSS SECTION AND REINFORCEMENT DETAILS OF COMBINED FOOTING



PLAN OF COMBINED FOOTING

NOTE:-

1. All dimensions are in "Feet & Inches".
2. Do not scale this drawing.
3. Use M25 grade concrete & Fe500 steel.
4. Use clear cover: 40mm for columns, 25mm for beams, 50mm for footing.
5. SBC of soil considered = 300 kN/sqm.
6. Lap length for bars in tension = 57 dia.
7. Spacing of the lateral ties 6" C/C.
8. The consultant is not responsible for the failures due to improper execution of work at site

CLIENT		
ENGINEER		
DRAWING TITLE: REINFORCEMENT DETAILS FOR COMBINED FOOTING		

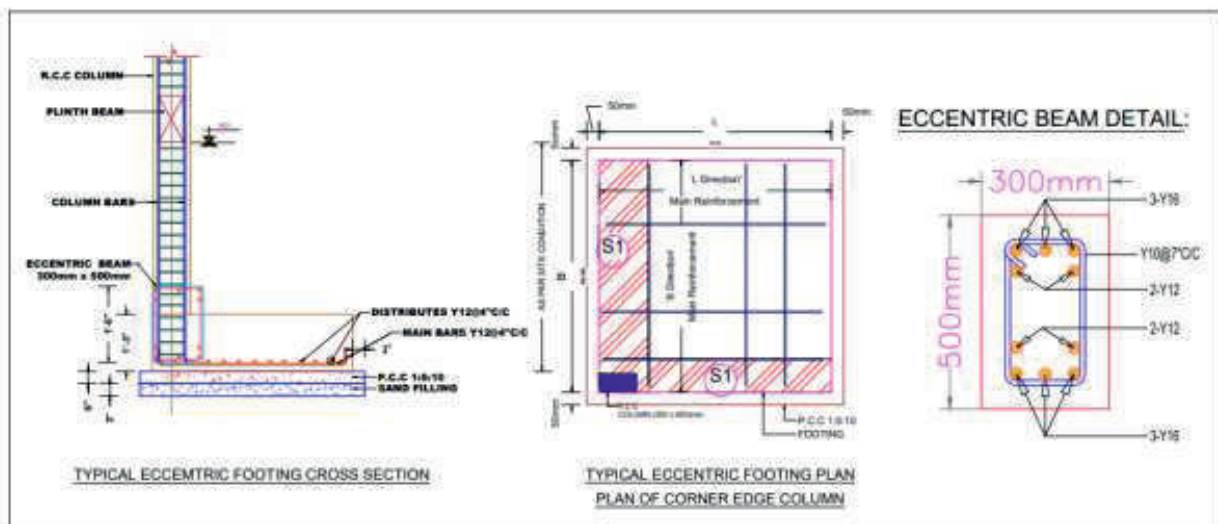
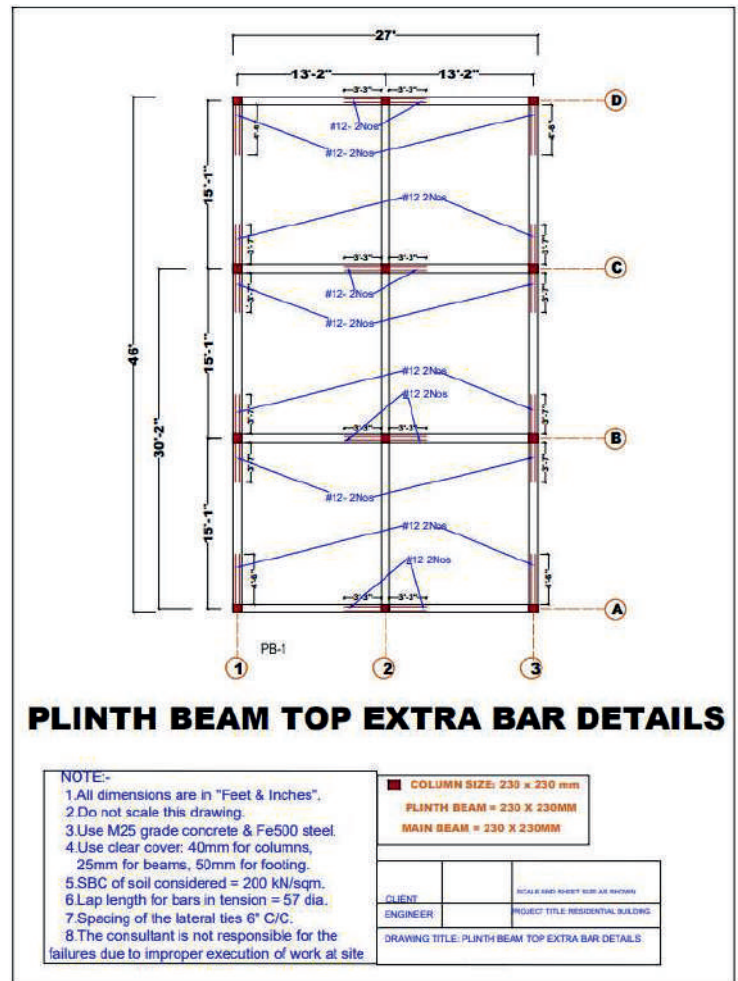
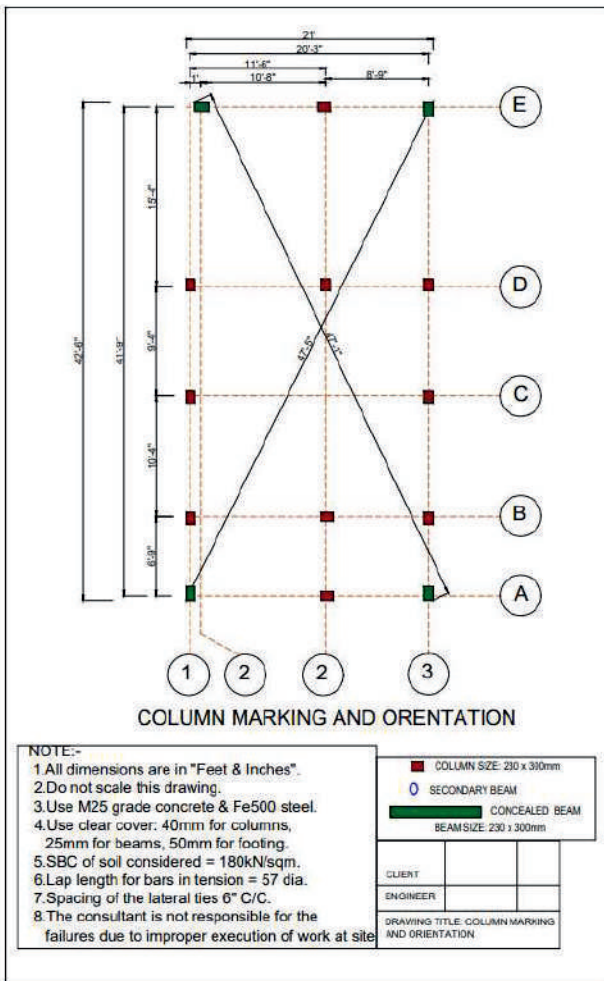
2. 3D Elevation of G+1 Building in Coimbatore



3. 3D design and Elevation of as Residential building in Salem



4. Residential building in Coimbatore



Ongoing Projects:

1. Commercial building
2. School building in cochin

MAHE FOODS WEALTHY HEALTH

Objective:

The objective of creating millet khova is to create a delicious and sweet dessert that mixes the nutty taste of millet with the creamy richness of khova. It is rich in nutritious value and has high dietary fiber content.

About the Product:

Millet Khova

The product millet khova is prepared using different millets like finger millet, foxtail millet, jowar and bajra which are rich in nutritious value. The millets are soaked in water for 8-10 hours after cleaning in water. The milk is extracted from the millets and little amount of milk is added in the ratio 4:1 and it is boiled well until it gets concentrated. The brown sugar is added for the sweet taste. A little amount of ghee, cardamom powder, and cashew nuts.

INGREDIENTS	QUANTITY
Finger Millet	100g
Foxtail Millet	100g
Bajra	100g
Jowar	100g
Milk	200ml
Brown Sugar	500g
Ghee	75ml
Cardamom	10g
Nuts	25g

We received 600g of sweets from it.

Description:

Millet khova is a delicious sweet made within millets, sugar, milk and ghee. They are flavoured with cardamom and garnished with nuts. They are rich in fibre and gluten-free.

Team Members:

Yunothini V - 7376211AG134
Lithikasree V - 7376221AG502



Udyam Registration Certificate

UDYAM REGISTRATION CERTIFICATE			
UDYAM REGISTRATION NUMBER	UDYAM-TN-27-0066485		
NAME OF ENTERPRISE	YUNOTHINI V		
TYPE OF ENTERPRISE *	S.No.	Classification Year	Enterprise Type
	1	2023-24	Micro
MAJOR ACTIVITY	MANUFACTURING		
SOCIAL CATEGORY OF ENTREPRENEUR	GENERAL		
NAME OF UNIT(S)	MAHE FOODS		
Flat/Door/Block No.	1-12-1	Name of Premises/Building	MAHE FOODS
Village/Town	KOTTATHUR	Block	1-12-1
Road/Street/Lane	MANAKATTU STREET	City	TRICHY
State	TAMIL NADU	District	TRICHIRAPPALLI, Pin 621004
Mobile	8072442758	Email:	yunothini.v21@bitsathy.ac.in
DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE	24/09/2023		
DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS	24/09/2023		
NATIONAL INDUSTRY CLASSIFICATION CODE(S)	S.No.	NIC 2 Digit	NIC 4 Digit
	1	10 - Manufacture of food products	1061 - Manufacture of grain mill products
			10619 - Other grain milling and processing n.e.c.
DATE OF UDYAM REGISTRATION	26/09/2023		
* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the Mo/MSME.			
Disclaimer: This is a computer generated statement, no signature required. Printed from https://udyamregistration.gov.in & Date of printing: 09/10/2023			
For any assistance, you may contact:			
1. District Industries Centre: TRICHIRAPPALLI (TAMIL NADU)			
2. MSME-DFO: CHENNAI (TAMIL NADU)			
Visit : www.msme.gov.in ; www.dcmsme.gov.in ; www.udyamregistration.gov.in			
Follow us @minmsme & @bitsathy			

Project Portfolio

1. RAMPeX Technologies - Educational Placement Company

Project Description: RAMPeX Technologies is a dynamic training and development initiative committed to empowering students in programming languages and cutting-edge technologies. Our programs cater to beginners and experienced learners alike, fostering skill enhancement and expertise.

Work Completed:

- Designed and produced brochures for special events.
- Crafted engaging posters for various occasions.
- Developed unique ID card designs for their employees.

2. D-CAP - E-Cart Company

Project Description: D-CAP is where style meets comfort, offering trendy and comfortable T-shirts designed to make a statement. We are driven by a passion for quality apparel and unique designs.

Work Completed:

- Monthly delivery of 50+ T-shirt designs tailored to their specific needs.
- Provided content for each design, ensuring a cohesive brand message.
- Maintained and regularly updated their webpage according to their evolving requirements.

3. ATEA - International Conference

Project Description: ATEA is an international conference with the mission of teaching and spreading the Tamil language overseas.

Work Completed:

- Conducted professional video editing services.
- Designed impactful posters to promote the conference.

4. Zackatron - Online Trading Company

Project Description: Zackatron is an online trading company focusing on providing seamless online trading experiences.

Work Completed:

- Created eye-catching posters for their social media platforms.
- Produced engaging videos for their social media outreach.

5. Kuviyal Foundation - Tribe Fund Donating Company

Project Description: Kuviyal Foundation is a tribe fund-generating foundation dedicated to empowering communities and fostering sustainable growth.

Work Completed:

- Designed distinctive logos for the foundation.
- Crafted informative and visually appealing brochures.

Team Members

1. Praneshvel S - 7376211CS244
2. Arun S - 7376211MC106
3. Sakthimagi P - 7376212IT131
4. Naveen M - 7376212CT135
5. Harish T - 7376211MC112
6. Kousick C K - 7376212IT168
7. Manobalan M - 7376212IT178
8. Suresh Kumar G - 7376212IT253
9. Adhil Hameed K H - 7376212IT105
10. Adharsh S - 7376212IT104