

BIT - INNOVATION & STARTUP

THE LATEST NEWS, VIEWS & ANNOUNCEMENT - JUNE 2021

BIT - STARTUP QUARTERLY NEWS BULLETIN
PRIVATE CIRCULATION ONLY
ISSUE 01





BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution Affiliated to Anna University - Chennai • Approved by AICTE • Accredited by NAAC with "A" Grade
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TABLE OF CONTENT

S. No	FIRM NAME	Pg. No.
1	A-Square Machinery Equipments	01
2	Bannari Amman Agri Service Centre	03
3	BitBot	06
4	ELECTEK	08
5	EMBETRONICZ	12
6	FAB Solutions	15
7	First Choice AC Solutions	17
8	i Foods	20
9	IoT Techno Solutions	22
10	i-Print	25
11	Sky View	28
12	Smilo Bio	30
13	Technology for wild life India Ltd	32
14	Trace Robotics	34



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/lifeatbit



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A-SQUARE MACHINERY EQUIPMENTS PVT LTD

A-SQUARE



FACULTY MEMBERS:

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Dr. A ANANDHAMOORTHY

Mr. S DEEPANKUMAR

Mr. N NATARAJAN

OBJECTIVE OF THE FIRM

- To build development delivery ability, with predictable and lower costs.
- Build additional product features in a cost effective, with promising high quality and future proof
- Improve quality and efficiency
- Drive the effort to provide a system high availability, redundancy, failure handling and monitoring.
- Implement modern software development methodology, towards goal of a self-organizing team, and delivery commitments.
- To maintain the high quality standards

IN THIS ISSUE

NUMBER OF PRODUCTS
COMPLETED - 2

NUMBER OF ONGOING
PRODUCTS - 2

NUMBER OF PRODUCTS
SOLD - 2

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SUGAR CANE HAND LEAF PEELING MACHINE



Sugarcane is the multipurpose crop that serves as the source of sugar, juices, jaggery, and various products for man and raw materials for industry. But, before the the machining process, some processing is required to remove the leaf on the cane during the growing level. This is the main problem in the cane field. Based on this problem, this machine was identified and it is operated by a 12V battery with a DC motor of 500rpm. The major part is the shaft, it will be connected to one end of the motor and another end socket which consists of the number of nylon brush is fixed. With this brush, the cane leaf can be easily removed. So, this product is very useful in Sugarcane farming, reduced manual work and fewer cultivation cost are the benefits of this product.

PLUGGING OF MANGO MACHINE

Mango picker is a tool for harvesting mango and other fruits. This product comes with a specially handmade cotton net to absorb sap while picking fruits. It has Sharp & throw blade, it also works for Mango, Sapota, Avocado, Amla etc



ACTION PLAN FOR THE UPCOMING MONTHS

- * Researching
- * Setting Product Vision
- * Communicating Vision to Stake Holders
- * Developing Strategic Plan
- * Creating and Maintaining Product Road Map

BANNARI AMMAN AGRI SERVICE CENTRE

Think Green Think Smart!!!!

FACULTY MEMBERS:

Mr. S MURUGAKANI

Dr. V CHELLADURAI

Mr. NIMKAR AMEY SANJAY



OBJECTIVE OF THE FIRM

- To provide fresh and organic vegetables and fruits to the BIT Community
- To involve the integration of advanced technologies into already persisting agricultural practices to improve production quality and efficiency of farming products.
- To provide services to local farmers to solve labour shortage issues using custom hiring centre for Agriculture Machinery
- To develop small scale machinery as per the demand of farmers

IN THIS ISSUE

NUMBER OF PRODUCTS
COMPLETED - 3

NUMBER OF ONGOING
PRODUCTS - 3

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MINI PELLET MAKING MACHINE

Mini Pellet Machine turns the raw materials into the high-efficient biomass fuel. The conversion of raw material into more energy-dense forms facilitates transport, storage and use through the rest of the value chain. Also it can be used to prepare animal feed pellets which are usually a mixture of dry powdered feedstock, such as flour, sawdust, or grass, and a wet ingredient, such as molasses or steam.



MANUAL BRIQUETTING MACHINE

Manual briquette machine refers to the equipment for making briquettes as fuel from organic or biomass materials. For example, sawdust, rice husk, bamboo, coconut shell, hardwood lump, etc. Materials for making briquettes requires less than 5 mm size and less than 12% moisture



MANUAL SEEDLING PLANTER

Usage of this seedling planter makes the transplanting process easier and faster with very less manpower. Some of the benefits are:

1. The operator can stand straight (no need to bend down) for planting the seedling to make the process easy.
 2. One manual planter equals nine man power working at a time providing high efficiency.
 3. It can be used with single or both hands.
 4. Used for planting seedlings of vegetables like, Tomato, Onion, Maize (Corn), Brinjal, Cabbage, Cucumber, Peanut, Garlic, Carrot and tobacco .
- Can also be used for planting potatoes, flower bulbs, etc.



ACTION PLAN FOR THE UPCOMING MONTHS

- *Working on Development of Custom Hiring Center for Farm Machinery.
- *Also Developing Webapp " AGRISOFT" for farmers which gives the complete guidance from Soil Analysis to Product sale in the market.
- *Developing Mulching paper lying machine.

BIT BOT

Building future bots

FACULTY MEMBERS:

Mr. K NANDAKUMAR

Ms. K RENUKA

Mr. BHUVANESH



OBJECTIVE OF THE FIRM

To increase the profit by increasing the reach to larger customers by promoting and developing affordable and effective solutions and creating a sustainable ecosystem.

IN THIS ISSUE

NUMBER OF PRODUCTS
COMPLETED - 1

NUMBER OF ONGOING
PRODUCTS - 1

CONTACT DETAILS

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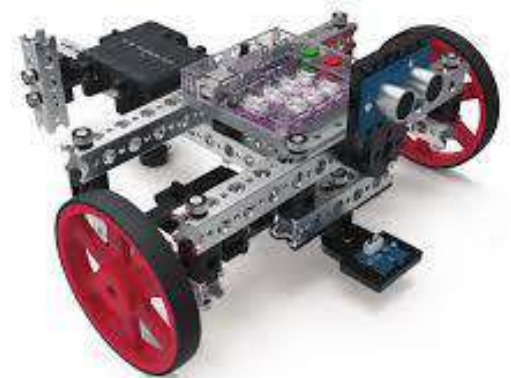


MINI HUMANOID ROBOT

Humanoid Minibot is the evolution to a more advanced robot. Certainly, it's easy to replicate so it empowers many people to make robots anywhere in the world. Humanoid Minibot similar to the basic one walks, dances, makes sounds and avoids obstacles, but it also has two arms, one LED matrix to express emotions and a gyroscope to measure orientation and movement for interactions.

PROGRAMMABLE MOBILE ROBOT WITH GRIPPER

Programmable Robots think on their own and do set tasks. They range from customized Arduino WiFi robots to programmable tactical robots. We have a selection of affordable robot kits. Besides beginner-level robot kits there are advanced walking robots, robotic arms, and the high-performance robot



ACTION PLAN FOR THE UPCOMING MONTHS

*Initially, our focus is on the consumer space with our launched product and it is just the first step in our long term roadmap to growth.

*In order to capture a larger market share and continue scaling the company exponentially, we are planning on rolling out a B2B model in the future where we concentrate on businesses.

ELECTEK

Driving to the future

**FACULTY MEMBERS:**

Dr. S VEERAKUMAR

Mr. S SATHISHKUMAR

OBJECTIVE OF THE FIRM

- To develop the future technology in E-Mobility and to develop all accessories required for E-Mobility in our premises.
- To empower technical skills to students in Electrical and Electronics engineering.

IN THIS ISSUE

NUMBER OF PRODUCTS
COMPLETED - 6

NUMBER OF ONGOING
PRODUCTS - 2

NUMBER OF PRODUCTS
SOLD - 1

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DELUO 1.0

In this pandemic situation, the washing and sanitizing our hands is one of the important things to fight against COVID. We developed our own product which met out this urgent need. The product was sold to many banks, industries and public areas

DELUO 2.0

The dispenser is equipped with a built-in smart sensor, which can sense your hands under the spout and automatically dispense the perfect amount of liquid sanitizer. This dispenser ensures hygienic hands which is free solution to prevent cross-contamination. Adjustable dispenser ensures the dispense liquid vary from 2ml to 20ml. The tank capacity may extend to 20 Ltr.



TIMER SOCKET

Timer Switch can be used for a range of devices and appliances such as Geysers/Water Heaters, Air Conditioners, Water Pumps, Washing Machines, Electric Cookers, Common Area Lighting, Street Lights, Garden Lights, Glow Sign Boards, Decorative Lighting, Wet Grinders, Water Coolers, Aquariums and more



RGB LED TUBE

It is a versatile, 4' LED tube light that offers fully adjustable brightness, a seamless color temperature range from warm tungsten to crisp, cool daylight, and an available RGB colors. It includes 12 adjustable color effects modes, which offer customization brightness, color, and speed settings



TAKO

Tako is a customised calling bell. It is a signaling device typically placed near a door to a building's entrance. When a visitor presses a button the bell rings a recorded voice inside the building, alerting the occupant to the presence of the visitor. Any voice will be recorded in this calling bell for 30 sec to 50 sec. It may often incorporate intercoms and miniature video cameras to increase security





UV-C & A LED STERILIZER

UVC LED - the tech was originally used on NASA aerospace cause only to sterilize the water for astronauts working in the space station or on special medical treatment equipment. But now it is used for civilian use all over the world as technology advance and mass production became possible. The wavelength of the UV light is short, that barely can any material endure the light. So we particularly choose ceramic base made out of gold and natural quartz. Five minutes sterilization is equaled to six hours under the sunshine, which can effectively deal with 99% of bacteria left on your stuff.

ACTION PLAN FOR THE UPCOMING MONTHS

*ElecTek are committed to produce electronic products that meet both the strict requirements of the current and future market and also the varying specifications of our customers.

*We intend to continue focusing on research and development and product development to ensure that our products meet the evolving and stringent requirements of the industry.

*We plan to expand the range of our products to include alternation of existing bikes with electricity for better performance. We also intend to develop hybrid bikes that can run on both gasoline and electricity

EMBETRONICS

Your Techno Partner



OBJECTIVE OF THE FIRM

To provide World-class design services for complete end-to-end electronic product development, from concept definition to production, for numerous application areas such as Embedded System, IoT, Embedded Vision and AI.

IN THIS ISSUE

NUMBER OF PRODUCTS
COMPLETED - 2

NUMBER OF ONGOING
PRODUCTS - 3

NUMBER OF PRODUCTS
SOLD - 1

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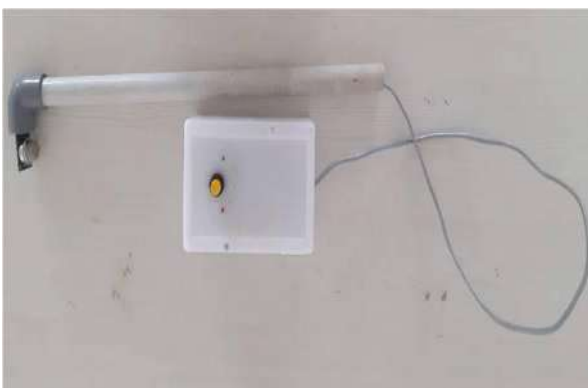


SMARTBUZZ

In this modern world everyone wants something new !!! something different !!! so, instead of using a switch to ring the bell just show your hands to the bell to ring it. The sensor in this bell will sense the hand and trigger the bell to ring. As it is touchless, it helps to maintain hygiene. This bell will be very useful during the present covid situation.

SUNLIGHT - SOLAR POWERED LED

Let us use the source of nature in an effective way. Solar energy attracts the interest of the globe because of it's non-polluting nature. Solar night lamp 5v portable lamp. The power source for this lamp is either chargeable or solar panel. During the day time, the panel will charge the battery using daylight. So, the power source is not always required. At the same time, it can be used during dull rainy days using the battery which can be charged using a 5V adaptor. The sensor in this lamp will sense the darkness and automatically switch it on when it is required and also the user can turn it on using their mobile phone from anywhere.



TOX-DE

The hazardous gas detector was designed only to detect the presence of hazardous gases evolved from the drainage. Due to a hazardous gas released from the drainage, many people are affected by some deadly diseases. The designed product will detect the amount of methane gas evolved from the drainage. If the people are supposed to inhale methane gas that may put their life at risk. By employing this product, we may avoid those diseases affecting humans.



THERMOWIFIPRO

Server room temperature monitoring systems are designed to accurately and reliably monitor and record ambient temperature. With automated alarming and continuous monitoring for humidity, temperature, and closure signals from water sensors you will have a reliable server room monitoring system that can trigger alarms in time to save vital equipment.

NERON

NERON water level controller v0.5 can automatically control the water level in the overhead tank. You may get relief from turning on / off your motor and monitoring tank by using this product in your home. It will monitor the water level problems like dry or overflow. It has three sensors to detect the level of water in the overhead tank which is placed at the bottom of the tank, middle of the tank and at the top of the tank. Based on these three sensor values, the controller can take action to pump the water when the overhead tank is empty and cut off the pump when the overhead tank is filled



ACTION PLAN FOR THE UPCOMING MONTHS

- * Establish a consulting and solution source platform in the field of industrial smart electronics
- * Establish partnership firm well-integrated and boost productivity at work and develop efficient systems.
- * Company own R&D team for smart projects design and development
- * Provide training in field of electronics, embedded system, Embedded Vision and IoT for industry requirements and provide skilled manpower outsourcing for industry
- * Development and support for trending electric vehicle products.

FAB SOLUTIONS

Quality REDefined



FACULTY MEMBERS:

Mr. P VIVEK KUMAR

Mr. K N KARTHICK

Mr. E SOUNDARPANDIAN

OBJECTIVE OF THE FIRM

To become the best provider for technical accessories and products. To provide innovative and high quality products designed by our highly skilled team members using state-of-the-art products and manufacturing process

IN THIS ISSUE

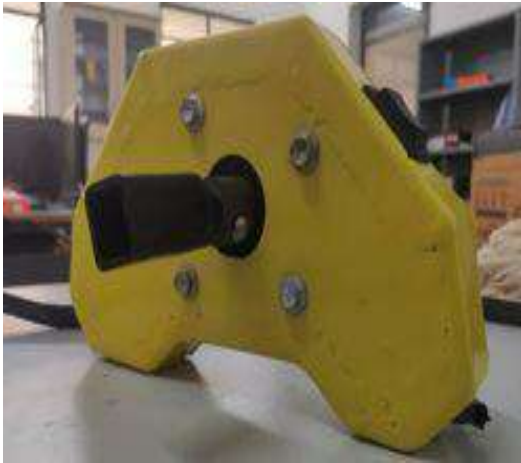
NUMBER OF PRODUCTS
COMPLETED - 1

NUMBER OF ONGOING
PRODUCTS - 2

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MOTORIZED SHUTTER LIFTER

A roller shutter, roller door, sectional overhead door is a type of door or window consisting of many horizontal slats hinged together. The shutter is raised to open it and is lowered to close it. The process could be tedious if the number of shutters are more. Motorised rolling shutters are expensive and are difficult to maintenance. To overcome this, portable shutter lifter device can be used with low maintenance and low cost. It is used in both residential and commercial places. The Portable shutter lifter is manufactured using raw material and latest technology in accordance with the industry standards.

GAS CYLINDER TROLLEY

Single cylinder hand trolley can transport one LPG gas cylinders. (Cylinder Height - Approx -750 mm, Diameter-305 mm and Tare wt-15Kg). Hand trolley should be fitted with two number of large solid rubber tired wheels and castors for better manoeuvrability over rough or even surfaces (2 nos, 8" x 2" Wheels). Trolleys should be designed with scratch resistant high gloss, electrostatically applied with oven baked powder coat. Material of construction: 18 gauge heavy duty mild steel, the trolley coated with white powder is then fabricated with 1.25" OD Pipe. Furthur, M.S. Plate is placed on the base of the frame on which the cylinder rests. As per the sketch, a firm handle is provided for the movement of the trolley



ACTION PLAN FOR THE UPCOMING MONTHS

- * To get established as a firm where the customer can strongly believe that this is a place where they can get all kinds of fabrication related solutions.
- * To redefine and provide product related solutions to customers based on their requirements.

FIRST CHOICE AC SOLUTIONS

Service at your Doorstep



FACULTY MEMBERS:
Dr. M RAVIKUMAR
Mr. K B PRAKASH
Mr. M CHANDRASEKARAN

OBJECTIVE OF THE FIRM

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

IN THIS ISSUE

NUMBER OF PRODUCTS
COMPLETED - 1

NUMBER OF ONGOING
PRODUCTS - 1

CONTACT DETAILS

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PERSONALIZED AIR CONDITIONER FOR BED

Our Personalized air conditioner is a small one and the prime focus is to cool the bed area. This personal bed AC consumes about 400-watts of electricity, which almost equals the use of about three bulbs. The bed air conditioner weighs about 12 kilograms. When it comes to dimension, it is less than 1 foot, 2 feet long and 1.5 inches deep. The cool air enters the tent like structure that covers the bed area. The actual AC unit focuses on cooling the area, one sleeps specifically. It is compact, light, portable, and the whole design makes it incredibly efficient- in terms of both cooling and power consumption. It consumes almost 60-65 percent less electricity when compared to a normal air conditioning unit. Since the cooling area is specific, it works more efficiently. It can be self-installed and does not need a technician, nor any need for any modifications to the civil structure of the home.

COMPACT ROOM AIR HEATER

Although, most parts of India are warm throughout the year, Northern states of India faces extreme cold weather during the winters. Just wearing warm clothes will not suffice to bear the cold winter days. One, definitely has to install room heaters to withstand the cold.

The Compact room heater is based on the Radiation or Infrared wave principle. The

Infrared room heater is probably the most economical heater that works like a campfire and emits heat only in its vicinity. So it is ideal for small spaces and single person. Although, the heater has no fans, it is not loud. Besides, it heats up quickly and uses less energy.



ACTION PLAN FOR THE UPCOMING MONTHS

Sales, service and installation of HVAC systems

Sales, service and installation of Solar PV systems

i Foods

பகிர்ந்துண்டு பலலுயிர் ஓம்புக



FACULTY MEMBERS:

Dr. R BALAKRISHNA RAJA
Mr. L GOWRISHANKAR
Mr. G GOWTHAM RAJ

OBJECTIVE OF THE FIRM

- To plan to develop healthy food with fortified nutraceuticals
- To enhance the quality of functional foods using the concept of waste to wealth
- To create the customer base through the WA & other social sites. (if possible will develop app based order & bill maintenance)

IN THIS ISSUE

NUMBER OF PRODUCTS
COMPLETED - 2

NUMBER OF ONGOING
PRODUCTS - 2

NUMBER OF PRODUCTS
SOLD - 2

CONTACT DETAILS

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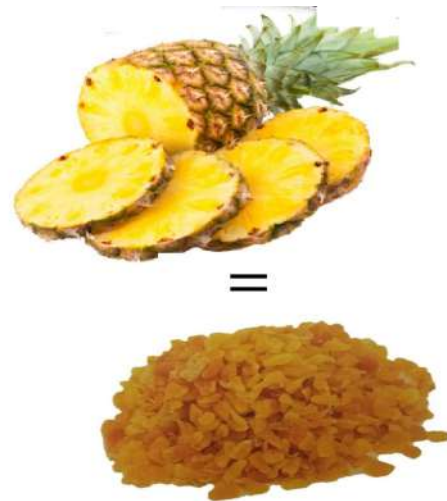


EDIBLE CUP

These cups are completely biodegradable and have longer shelf life than any other edible cutleries in the market. With selective ingredients we designed these cups for both cold and hot beverages and it can withstand more than 25 mins without any leakages & structural degradation. Because of its structural integrity these cups can also be used to serve ice creams. The temperature of the food served doesn't affect its nature of formation.

FRUIT CANDY

Our Fruit candied fruits are made with real cut fruit chunks that are tree ripened and handpicked. We process the candied fruit in low temperatures where the temperature cannot exceed 50o. On an average 7-8 kg of fresh sapota fruit is required to make 1 kg of candied fruit.



ACTION PLAN FOR THE UPCOMING MONTHS

Planned to launch after getting proper FSSAI & NABL certification from accredited labs

IOT TECHNO SOLUTIONS

Automate Everything



FACULTY MEMBERS:

Mr. S TAMILSELVAN
Mrs. P RAMYA
Ms. V R KIRUTHIKA
Mr. R RAMESH

OBJECTIVE OF THE FIRM

IoT Techno Solutions is a internet of things (IOT) development solutions provider that delivers the most innovative and agile solutions that enable you to automate, inspire and impress. We dedicate hours of painstaking analysis to develop solutions that not only cater to our customers' current requirements but also scale seamlessly for future needs. Most importantly, we always aim to build solutions that focus on design and development of IoT enabled technologies & solutions which are cost effective and socially relevant on increasing your productivity.

IN THIS ISSUE

NUMBER OF PRODUCTS
COMPLETED - 2

NUMBER OF ONGOING
PRODUCTS -2

CONTACT DETAILS

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TOUCH FREE THEERTHAM DISPENSER



One needs to just place a hand near the dispenser output and the device will automatically sense the hand and dispense Theertham. We use a HCSR04 Ultrasonic Sensor to check if any object Distance is $\leq 10\text{cm}$. The Water pump is used to control the flow of Theertham. So we will write a program which always checks if any object is placed near the distance of $\leq 10\text{cm}$. If yes then the water pump turns on and we wait until the object is in the distance $>10\text{cm}$. Once the object is removed the water pump motor turns off automatically thus closing the supply of Theertham. The Ultrasonic Sensor is powered by +5V and ground pins of the Arduino. The Echo and Trigger pin is connected to pins 5 and 6 respectively

RFID BASED TEMPERATURE MONITORING SYSTEM

Infrared thermometers or pyrometers can carry out a non-contact temperature measurement of an object at a single point. Infrared thermometers are very compact and can be integrated easily into a wide range of application environments. A lot of devices are available which can be selected based on temperature ranges and wavelengths that are adaptable to the industrial application. Pyrometers are distinguished between the compact, low price sensors (compact series) and high-performance thermometers (high-performance series). Both series can output measuring values via various standard interfaces, thereby making them usable directly for process control. Typical applications for infrared thermometers can be found in many industrial processes, where maintaining an exact temperature is important, for example in plastics and metal industries or in the manufacture of cardboard packaging. It can be used in industries and educational institutions to measure the workers & student's body temperatures. The RFID Scanner scans the data from the I'D card sends it to the controller where it converts into hexadecimal form, and maps with the corresponding Student/Faculty information stored in the database.



Through this set-up, the name, roll no and temperature of the student/ Faculty along with measured data & time will be stored in the cloud for further reference. This configuration facilitates temperature measurement from a distance without contact with the object to be measured. This approach ensures safety especially in Covid situations where temperature measurement is carried on with RFID sensors, which guarantees Social distancing.

ACTION PLAN FOR THE UPCOMING MONTHS

IoT is not just limited to the retail or supply chain industry; in fact, in the healthcare industry Internet of Medical Things (IoMT) is curing diseases and improving the quality of life. In the future, IoT Techno Solutions offers IoT development services to enterprises and innovative consumers.

We help our clients build smart gadgets, turn analog products into digital using sensors, firmware, and IoT platforms, and create infrastructure (embedded, web, and mobile) for custom IoT solutions. We support clients to configure IoT devices, manage cyber-physical systems onsite and remotely, analyze sensor data using BI tools, and present it via interactive dashboards.

i-PRINT

Print Anything



OBJECTIVE OF THE FIRM

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

IN THIS ISSUE

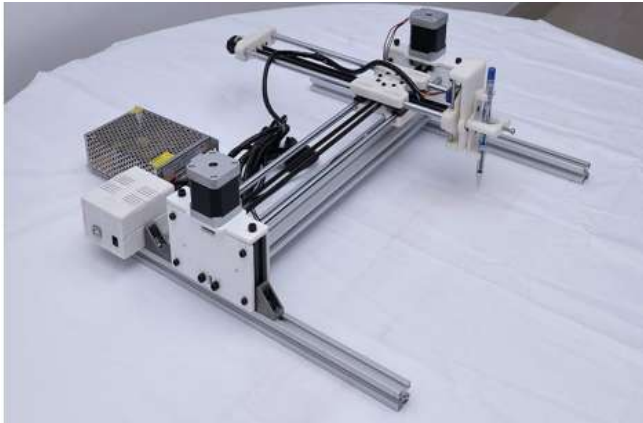
NUMBER OF PRODUCTS
COMPLETED - 2

NUMBER OF ONGOING
PRODUCTS - 2

NUMBER OF PRODUCTS
SOLD - 2

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2 AXIS X-Y PLOTTER

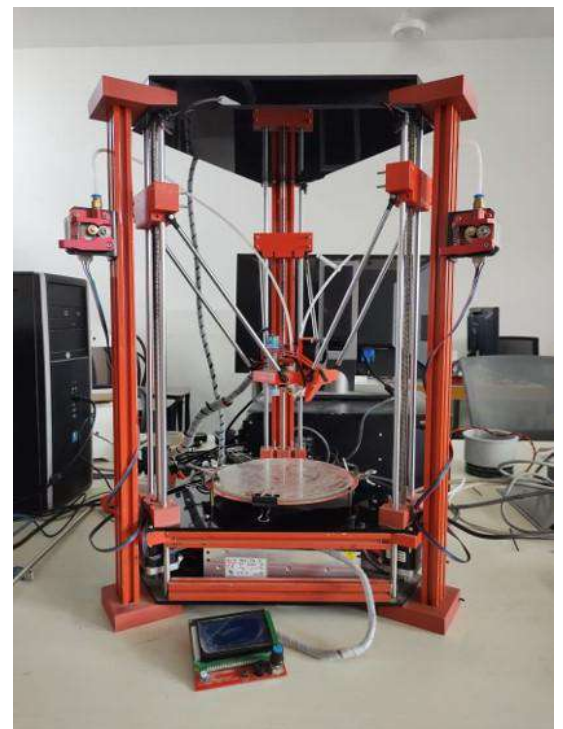
X - Y plotters are the output devices commonly used for computer-aided design applications, to achieve an output of large vector designs such as architectural blueprints. By moving a pen mechanically, plotters draw line art onto the surface of the paper to reproduce vector graphics drawn on a computer.

FDM based Delta 3D Printer

Delta 3D printer uses the Cartesian coordinate system, but it does not use linear-motion tracked movement to deposit the filament. Instead, it uses three arms, each consisting of a parallelogram. It also moves from one X or Y point to another without changing the angles of these parallelograms.

The arms of a Delta 3D printer hang down from a fixed platform. All of the mechanics drive the motion of the arms that are located in that platform. As a result, the print head of the Delta 3D printer becomes a lot lighter, even though it contains motors for movement.

This reduced weight leads to reduced inertia. By reducing the inertia, particularly at the end of a movement, the production head will be able to respond quickly, while retaining its accuracy.





FDM based Delta 3D Printer

Cartesian 3D printers are the most common FDM 3D printer found on the market. Based on the Cartesian coordinate system in mathematics, this technology uses three-axes: X, Y, and Z to determine the correct positions and direction of the print head. With this type of printer, the printing bed usually moves only on the Z-axis, with the print head, working two-dimensionally on the X-Y plane

Foam Cutting Machine

Foam cutting machine is used for cutting the rigid foam material which comprises single electrically heated stretched wires between the two moving axes (Y & Z). The foam sheet is shaped by the heated wire at a uniform rate by the stepper motor on both the axes. The moving axis being directed by the software, the wires through the foam, thereby cutting it to shape of the required design.



ACTION PLAN FOR THE UPCOMING MONTHS

It is planned to fabricate low cost metal additive manufacturing machines and bio printing machines. Further, it is planned to develop our own software for our printers

SKY VIEW

Fly above and Beyond

**FACULTY MEMBERS:**

Mr. V HARIPRASAD

Mr. A SUNDARAMAHALINGAM

Mr. R NAVEEN

OBJECTIVE OF THE FIRM

Sky View aims at developing quality of drone parts and provide expert drone services. Sky View design, develops drone parts and assembles them to meet customer requirements. We are capable of building drone 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 to the customers. We also aim at providing intelligent solutions to industries by promoting the usage of drone

IN THIS ISSUE

NUMBER OF PRODUCTS
COMPLETED - 2

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PRODUCTS - 3

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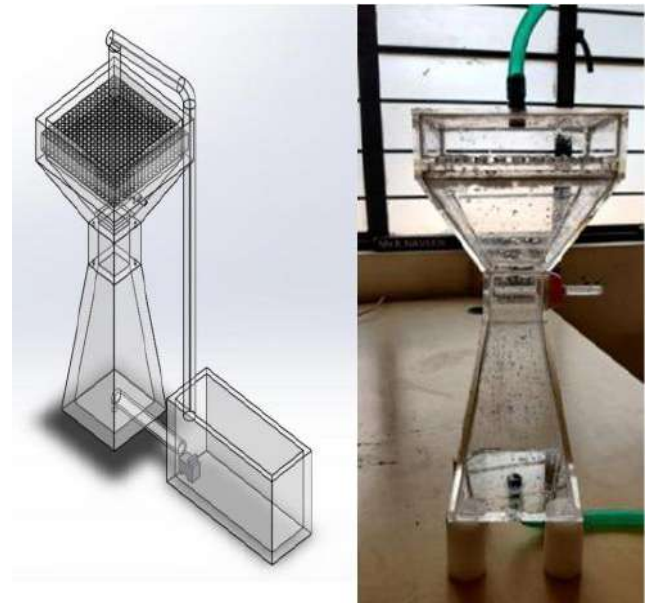


SKY VIEW NAZA DRONE KIT

Sky View Naza Drone Kit is a multi-rotor designed for fun and for AP pilots. NAZA autopilot system, can achieve hovering, cruising, even rolling and other flight elements. It can be used for entertainment, aerial photography, FPV and other aeromodelling events.

VERTICAL FLOW CHANNEL

Vertical Flow channel is built to visualize the aerodynamic flow that happens around the drone components. The vertical flow channel will give a clarity on the flow around the objects and aids in improving the aerodynamic properties. The vertical flow channel is designed as a table top model, with easy portable capability and low cost.



ACTION PLAN FOR THE UPCOMING MONTHS

Sky view is planning to develop its indigenous drone for survey and educational purpose. The company is also in the process of designing its own test facility for drone components

SMILO BIO

SMIOBIO CARE FOR YOU

FACULTY MEMBERS:

Dr. R RAVIKUMAR
 Dr. M KIRUPA SANKAR
 Mr. A VIMAL ARASAN



OBJECTIVE OF THE FIRM

- To deliver a healthy and quality product. To reveal the traditional food as per today needs and acceptance.
- To serve the society with simplicity.

IN THIS ISSUE

NUMBER OF PRODUCTS
 COMPLETED - 2

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SPIRPRO

Spirulina is a biomass of cyanobacteria (blue-green algae) that can be consumed by humans and animals. The three species are *Arthrospira platensis*, *A. fusiformis*, and *A. maxima*. As an ecologically sound, nutrient-rich dietary supplement, spirulina is being investigated to address food security and Malnutrition.

PHYBLUE

C-phycoyanin (C-PC) is a blue pigment in cyanobacteria, rhodophytes and cryptophytes with fluorescent and antioxidative properties. C-PC is presently extracted from open pond cultures of the spirulina. C-PC is considered a healthy ingredient in cyanobacterial-based foods and health foods while its colouring, fluorescent or antioxidant properties are used as a fluorescent dye.



ACTION PLAN FOR THE UPCOMING MONTHS

- * Scaleup of the spirulina from 2kg per day to 1000kg per day and also to convert it into organic spirulina.
- * Spirulina health drink
- * Phycocyanin beverage to large scale
- * Large scale enzyme production to 10 ton per day

TECHNOLOGY-FOR-WILDLIFE INDIA LTD.

Technology for Wildlife



FACULTY MEMBERS:

Dr. SANJOYDEB

Dr. R SARAVANA KUMAR

Mr. R RAMKUMAR

OBJECTIVE OF THE FIRM

To design and development various wildlife and nature conservation technologies through in-depth R&D. Research outreach to forest department, farmers and NGOs through consultancy services.

IN THIS ISSUE

NUMBER OF PRODUCTS
COMPLETED - 2

NUMBER OF ONGOING
PRODUCTS -2

CONTACT DETAILS

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PERSONAL SAFETY ACOUSTIC GUN

The "Personal Safety Acoustic Gun Device" is a device which has the following features; A torch light, a 110dB high volume Hooter with a double switch, a solder slingers for easy portability, 12V 2.5 Ah battery, a metal handle to operate, a 12 volt battery charger, a battery backup of 100 times sound (5 sec each) etc. It weighs just 1.7 Kg

ACTION PLAN FOR THE UPCOMING MONTHS

Research outreach to the forest department, farmers and NGOs through consultancy services.

TRACE ROBOTICS

Build The Future



FACULTY INCHARGE:
Dr. P SENTHILKUMAR

OBJECTIVE OF THE FIRM

- Trace Robotics is a Mobile Robotics technology firm that designs, manufactures and deploys robotics systems for industries and the educational sector.
- We combine expertise in robot hardware with robot software engineering to solve operational issues in automation.

IN THIS ISSUE

NUMBER OF PRODUCTS
COMPLETED - 2

NUMBER OF ONGOING
PRODUCTS - 2

NUMBER OF PRODUCTS
SOLD - 2

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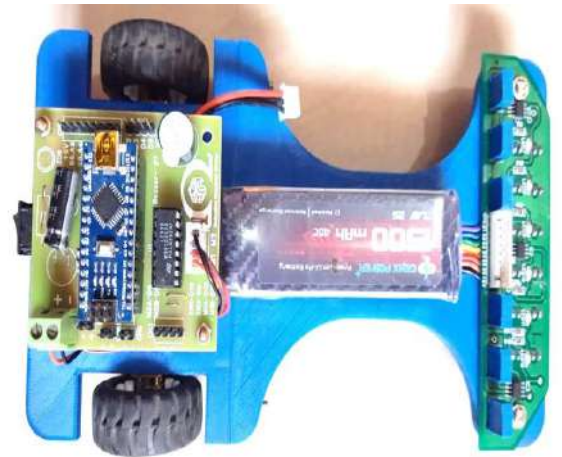


MOBILE ROBO BEGINNERS KIT

Mobile Robot beginners kit is one of the best kit, which gives the first robotic experience for the beginners and students. A Line Follower Robot is an automated guided vehicle, which follow a visual line embedded on the floor or ceiling. Usually, a visual line is a black line on a white surface. It is the path which the Line Follower robot follows to move from one location to another.

RANGER v2.0

Ranger v2.0 is upgraded version of ranger v1.0 in which pololu motor and 3d printed chassis have been used for better tracking of path. A Line Follower Robot is an automated guided vehicle, which follow a visual line embedded on the floor



ACTION PLAN FOR THE UPCOMING MONTHS

- * We are planning to develop a humanoid robot for competitions at college level.
- * We are also planning to make an industrial mobile robot for handling materials in the production line.