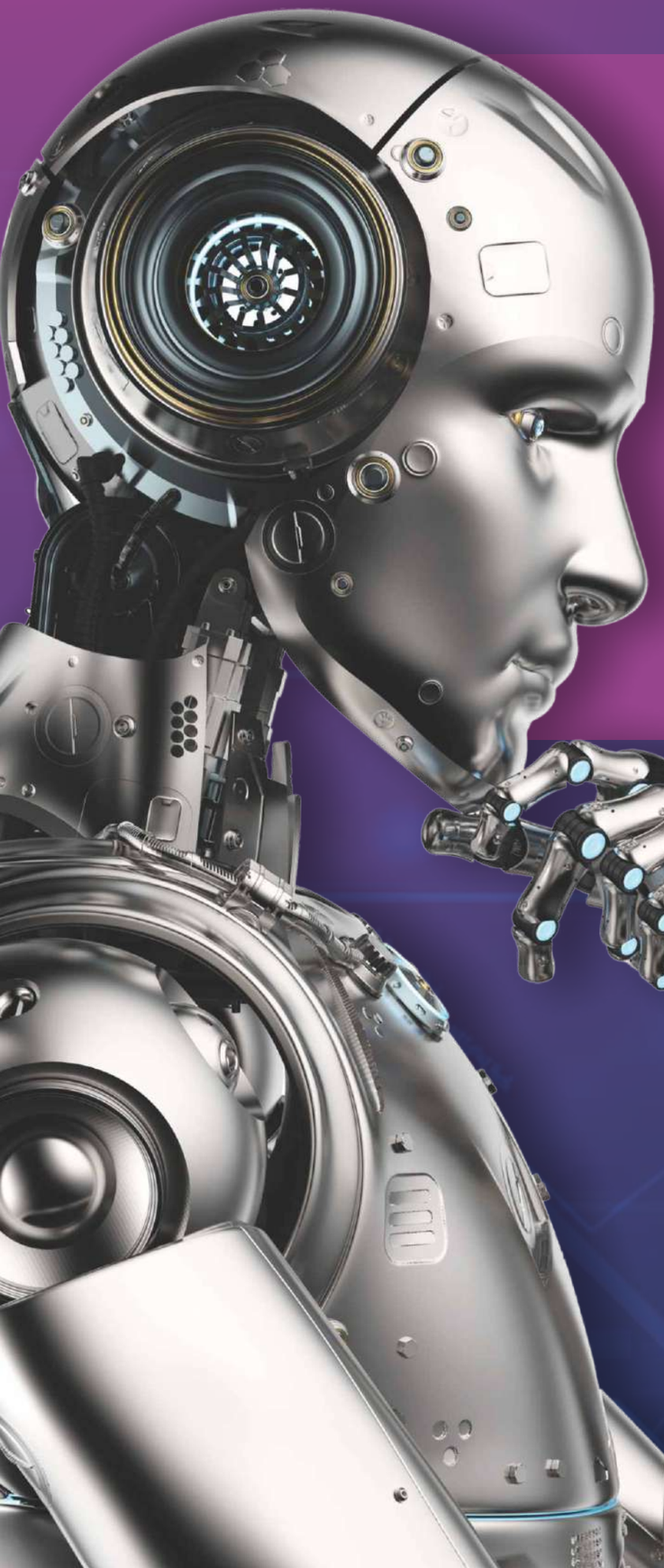


INNOVATION
AUTOMATION
TECHNOLOGY
ROBOTICS
STEAM

OMO TEC
ON MY OWN TECHNOLOGY

#WorkOfFuture

An Integrated offering of Engineering, Design Thinking, Robotics, Artificial Intelligence, Machine Learning, Augmented Reality, Virtual Reality, Schematics & Programming

INNOVATION & LEARNING Never Stops

STEAM LEARNING
Leveraging Technology

OMOTEC – On My Own Technology fuels curious minds for innovation and research in the adaptation and creation of technology and its application.

OMOTEC has researched and built a robust understanding of INTEGRATED knowledge on NEW AGE SUBJECTS of technology related to Engineering, Design Thinking, Machine Learning, Artificial Intelligence, Electronics, Mechanics, Programming, Applied Sciences, 3D printing, Aeromodelling, Augmented Reality, Virtual Reality and many more.

In this age of technology revolution where we see rampant growth in automation and innovation , OMOTEC is the catalyst for the youth to explore endless possibilities.

Our curriculum believes in EXPLORING & MAKING, thus creating more curiosity towards subjects of Science, Technology, Engineering, Art and Math (STEAM) by connecting them to real world applications.

TEAM OMOTEC

Reetu Jain

Chief Mentor and Founder of On My Own Technology. She is an MBA with 24 years of rich experience in understanding markets & consumers, Product Innovation and Research, of which the last 10 years have been extensively into Robotics & Education. She currently holds 2 Patents and Research Papers in her name.

Shekhar Jain is CEO & Co-founder at On My Own Technology. He is a technology enthusiast, has been in corporate service for the last 24 years with his last stint being Managing Director, JP Morgan Chase India. He was the lead Program Manager for implementing Robotics Solutions for JPM for the Strategic Unit of Reference Data Globally having implemented several Robotic Solutions for the bank and was also responsible for developing various technology stacks for ICICI Bank, IL&FS and NSE during his stint there.

Shekhar Jain

- 5 Flagship Innovation Centres
- More than 80 Qualified Engineers (BE, BTech, MTech, Mechantronics)
- 4000+ electronic, mechanical, electrical tools and components with various softwares
- Training 5000 students every month
- Partner to 50+ Schools for STEAM program
- 3D Designing, Printing Labs
- BIRAC approved & funded Innovation Project

HIGHER EDUCATION REVIEW TOP 10 ROBOTICS INSTITUTE

THE ACADEMIC INSIGHTS TOP 20 ROBOTICS INSTITUTE

AICRA CERTIFIED

Explore The World Of Robotics

- DRONE MAKING & AEROMODELLING
- MECHANICAL BUILDING & DESIGN THINKING - Machines Mechanisms Material - FTC
- CORE & ADVANCE ELECTRONICS - Circuits & Schematics, Arduino, Raspberry Pi, Soldering, PCB designing
- CODING & PROGRAMMING, AUTONOMOUS ROBOTS - Python, Java, IDE
- GAMING, DESIGNING, APP DEVELOPMENT - Scratch, HTML, Android, UNITY 3D
- LEGO ROBOTICS & PROGRAMMING - WRO & FLL
- MACHINE LEARNING & ARTIFICIAL INTELLIGENCE
- AUGMENTED REALITY, VIRTUAL REALITY
- RESEARCH & INNOVATION

"INSPIRING the next generation of THINKERS
Developing a mindset of Innovation
Core Experiential Learning & EXECUTION
#WorkOfFuture is Technology & Technology is here!"

OMOTEC - AREAS OF EXPERTISE

OMOTEC STEAM INNOVATION LABS FOR SCHOOLS / COLLEGES

Fully equipped Labs with hi-tech tools, cutters, machines, electronic and mechanical components, along with knowledge bank of coaches from all fields of engineering

Complete assistance in setup & maintenance of STEAM Innovation Labs along with curriculum

Train the Trainer Program to enable independent functioning

Support Atal Labs

OMOTEC STEAM SCHOOL K-12 CURRICULUM

Year Long, grade-wise in-school curriculum for K-12, integrating STEAM learning in Electronics, Mechanics & Coding with Applied Science and Math based foundation

Curriculum mapped to various boards for each grade

Exhaustive Robotics curriculum with hands on project execution in every session offering after school robotic program and specialized event / theme based workshops

Corporate CSR Program for Skilling

OMOTEC FUTURISTIC SKILLS WORKSHOP

Workshops for Engineering Colleges and Corporates in the fields of Machine Learning, Artificial Intelligence, Automation and Futuristic Technology

Hands on workshop for building, coding, executing ideas & exploring endless possibilities to INNOVATIVE SOLUTIONS

OMOTEC PRODUCT DEVELOPMENT INNOVATION & RESEARCH

2 Patents for medical devices, filing of Research Papers in International editorials and guidance for multi-technology led Innovation projects

Ideas to Execution – using design thinking Framework

Association with industry professtionals to aid RAPID Product Prototyping, Development, Testing and Patent Filing Process

OMOTEC PRODUCT DEVELOPMENT EXPLORATION KITS

OMOTEC STEAM KIT aids execution of 100 plus projects combining knowledge exploration in mechanical, electronics and coding fields

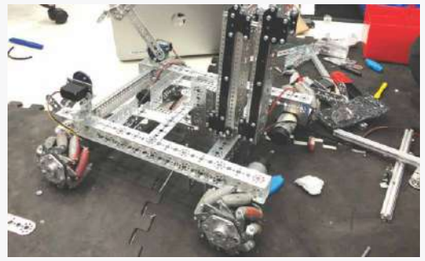
Open ended KIT enables exploration of Physics and Math concepts to make innovative projects

Age Appropriate KITS with guided manual & backend support to understand and do technical trouble shooting

OMOTEC FLAGSHIP INNOVATION CENTRES

MUMBAI - LOKHANDWALA | JUHU | PRABHADEVI
PUNE - KHARADI

- 2000 squarefeet of Lab space
- 1:1 Personalised Coaching
- Year Long planned curriculum
- Integrated hands-on learning for Mechanical, Electronics and Coding



CAPABILITIES TO MENTOR AND PARTICIPATE IN VARIOUS COMPETITIONS

F1 in Schools STEM Challenge
TECHNOXIAN CHAMPIONSHIP'19 5th EDITION - INTERNATIONAL ROBOTICS LEAGUE & WORLD ROBOTICS CHAMPIONSHIP
IRIS NATIONAL SCIENCE FAIR
IIT Bombay Techfest
robotex INTERNATIONAL
FLL FIRST® LEGO® League
FIRST TECH CHALLENGE
MAKE X
INNOVATE FOR DIGITAL INDIA CHALLENGE
ANTIMICROBIAL SPACE CHALLENGE
WRO WORLD ROBOT OLYMPIAD
Google SCIENCE FAIR

OMOTEC STEAM K-12 SCHOOL CURRICULUM

Program includes:

- Proprietary Curriculum + OMOTEC trainers + Material for hands-on execution of all curriculum.
- Total no of sessions: 30 for each grade for each academic year.
- Duration of each session: one class period weekly (ideally 1 hr.)
- Year long topic wise schedule is provided by OMOTEC & mutually finalized in the beginning of the year
- Professional Engineer & Science faculty will be deputed to the school.
- Classes will be conducted as per school schedule and timetable.
- Grade wise OMOTEC Certification for every student on STEAM Education at year end
- Robo Month Organised by OMOTEC to test and culminate robotic intelligence gained during the year
- Competition Trainings like The FIRST Tech Challenge (FTC), FIRST LEGO League (FLL), World Robot Olympiad™ (WRO) & many more

		GRADES											
PROGRAMS	**TOPICS COVERED**	1	2	3	4	5	6	7	8	9	10	11	12
LEGO ROBOTICS WITH MECHANICAL DESIGN, CONSTRUCTION & CODING	1. MOTION & TYPES OF MOTION - (LINEAR, CIRCULAR, OSCILLATORY), SPEED, VELOCITY, ACCELERATION, KINEMATICAL EQUATIONS, NEWTON LAWS OF MOTION, DISPLACEMENT, FORCE & PRESSURE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CIRCUITS, SCHEMATICS & ELECTRONICS, ARDUINO, RASPBERRY PI	2. ELECTRICITY - VOLTAGE, BATTERIES, AC / DC, SERIES, PARALLEL, OHMS LAW 3. HEAT - CONDUCTION, CONVECTION, INSULATORS, RADIATION, JULES LAW OF HEAT 4. MAGNETISM - FORCE (PULL / REPEL)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
3D PRINTING - FROM DESIGN TO PROTOTYPING, USING 3D PRINTER & DOODLING PEN	WHAT IS 3D PRINTING, 'BASICS OF 3D PRINTING, KNOW YOUR 3D PRINTING & LIVE 3D PRINTING DEMO, APPLICATION OF 3D PRINTING IN REAL WORLD, DOODLING, CREATE YOUR 3D DESIGN ON AUTODESK		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CODING, APP DEVELOPMENT & PROGRAMMING LANGUAGES	PROGRAMMING LANGUAGES LIKE SCRATCH, HTML, JAVA, MIT APP INVENTOR, UNITY 3D				Y	Y	Y	Y	Y	Y	Y	Y	Y
SCIENCE & ENGINEERING PROJECT, IDEAS TO EXECUTION	APPLICATION BASED PROJECTS EXECUTED USING SOME OF THE ABOVE CONCEPTS				Y	Y	Y	Y	Y	Y	Y	Y	Y
PYTHON PROGRAMMING	FUNCTIONALITY & APPLICATION BASED CODING							Y	Y	Y	Y	Y	Y
OPTIONAL PROGRAMS													
AERO MODELLING, DRONE MAKING - DESIGNING, BUILDING, FLYING MINIATURISED AIRCRAFTS	UNDERSTANDING THE PHYSICS OF FLYING, CREATING YOUR FIRST GLIDER, FLYING SIMULATION, CREATING & FLYING YOUR CHUCK GLIDER												
NATIONAL & INTERNATIONAL RESEARCH & INNOVATION PROJECT COMPETITIONS	SCIENCE, RESEARCH, PROGRAMMING BASED COMPETITIONS								Y	Y	Y	Y	Y
NATIONAL & INTERNATIONAL ROBOTICS COMPETITION(FLL, WRO, IIT TECH FEST)	ROBOTICS - DESIGN, CONSTRUCTION, PROGRAMMING & RESEARCH BASED COMPETITIONS					Y	Y	Y	Y	Y	Y	Y	Y
AR/VR	REAL & DETAILED INCLUSIVE & EXHAUSTIVE LEARNING THROUGH CLOSE VISION	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
MACHINE LEARNING / ARTIFICIAL INTELLIGENCE / IMAGE PROCESSING	APLLICATION OF MACHINE LEARNING THROUGH DATA COLLECTION, READING AND IMPLEMENTING IN VARIOUS FIELDS								Y	Y	Y	Y	Y

OMOTEC FUTURISTIC WORKSHOPS @ ENGINEERING COLLEGES

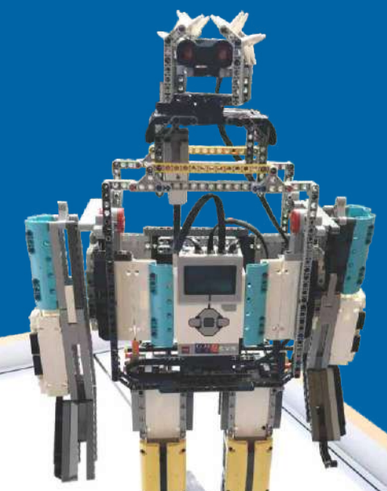
Changing Mindsets gearing them to problem solve with high-tech, advanced & futuristic technology solution

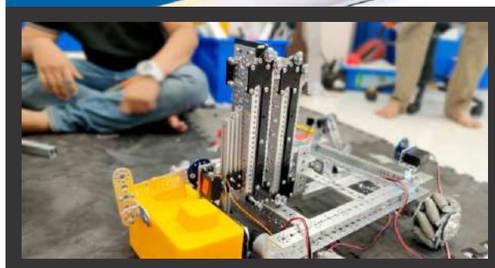
Enabling Design Thinking, Innovation & Research to create real world solutions

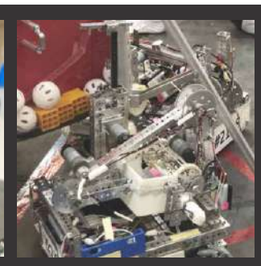
Embedded Electronics
Arduino Environment

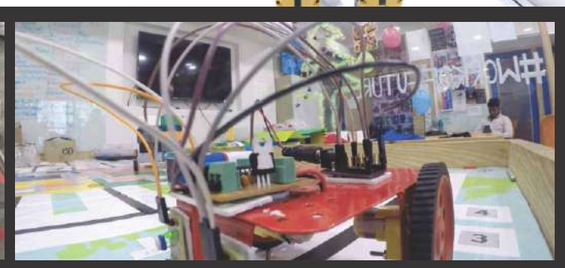
Project Guidance

Machine Learning
+Artificial intelligence









AFFILIATIONS

AWARDS
International Awards

2017

- Future Innovators Award WRO - Costa Rica 2017

2018

- Best Innovative Project Idea WRO - Thailand 2018
- Best Research Award FLL - Estonia 2018
- Best Innovative Solution Award FLL - Estonia 2018

2019

- ROBO SOCCER - Team G Force: Only Indian team to represent India in World Hungary WRO 2019
- Gattii™ - Innovation project presented at ISEF 2019 - Arizona, US
- Best Innovation and Strategy Award FLL - Lebanon 2019
- Represented India: FLL - Turkey 2019
- Team Golem Army - WRO World Champions 2019 Hungary for Road Potholes
- Techo Nerds - 1st Prize at NASA's Antimicrobial Space Challenge 2019 in Space Medical Device Challenge
- Team G Force - 2nd Prize at NASA's Antimicrobial Space Challenge 2019 in Space Tool Challenge
- Team LIVE WIRES - Best cultural team award @ MakeX 2019, China

AWARDS
National Awards

2016

- Myopia - Shortlisted in Top 100 National IRIS Science Fair 2016

2017

- Best Robo Performance & Design Awards FLL 2017
- Top 20 – Cosmo Clench IIT Tech Fest

2018

- Team MAD Engineers - Finalist Alliance 1st Team at FTC Nationals 2018
- Best Project Run Award - Team BLOCKSMITHS - WRO - 2018
- IRIS Nationals shortlist - Facial Analysis Based Interactive Chat Bot using Neural Networks
- Gattii™ - Shortlisted in Top 100 National IRIS Science Fair 2018

2019

- Best Design Award - FTC 2019
- Best Motivate (Inspiration to others) Award - FTC 2019
- Judges Compassion Award - FTC 2019
- Nominated Best Inspire Award – FTC 2019
- Best Project Award - FLL 2019
- 1st prize in Robo Soccer at WRO Nationals 2019
- 1st prize in Open Junior Category at WRO Nationals 2019
- 1st prize in Open Senior Category at WRO Nationals 2019
- 2nd prize in WEDO ROBO MAZE at WRO Nationals 2019
- 3rd Prize in SENIOR ROBO RACE at WRO Nationals 2019
- 3rd Prize in Junior Robo Race at WRO Nationals 2019
- Team LIVE WIRES bagged silver at MakeX Makebot Challenge Mumbai 2019
- Second price in the Fastest Line Following Bot @ Technoxian Nationals 2019 and many more.....

OMOTEC INNOVATION & RESEARCH

As learning gets more practical, hands-on application and research oriented, students develop temperament and attitude to Problem Solving, Analytical Reasoning, Communication and Teamwork skills

This has resulted in INNOVATION PROJECTS.

Gattii™

This invention is filed for patent and relates to a gait analysis and more particularly, to a wearable, portable, affordable and accessible device for gait analysis.

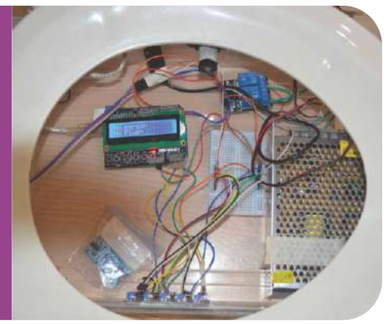
OUR INNOVATION PROJECTS

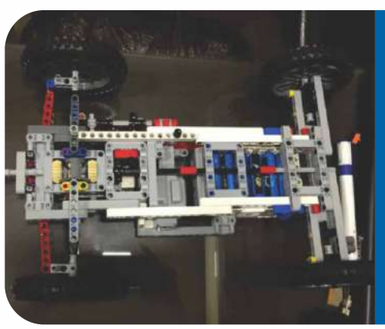
Underground Water pipe Leakage detection

Water leakage detection for underground pipes using a wireless robot with night vision camera and transmitter receiver to communicate with encoder/decoder motors.

Flexi Flush to slow the flow of water flushed for urine by detecting the diameter of the waste - liquid or solid.

Flexi Flush
Water waste management



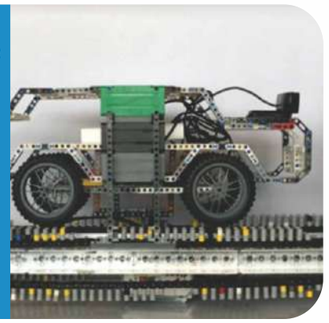


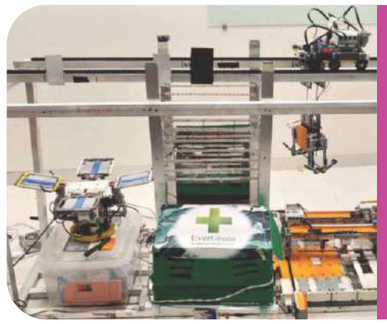
Trail On
Fuel efficiency solution

Trail-On is tool to save fuel by rotating the axle of the second car with the help of differential of the first car converting a four wheel drive to a six wheel drive.

Advance Pot-Hole Detection system that uses Image Processing, Open CV, Machine Learning to detect potholes by a running vehicle, determines the size and geo tags the location on Google map to help BMC in smart governance

Advance Pot-Hole Detection for better city transportation PROPOSED TO BMC



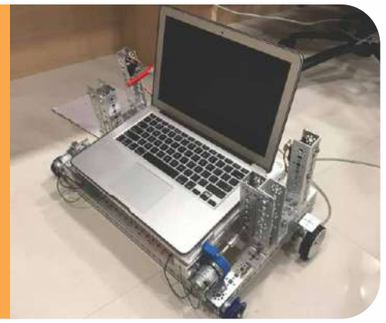


EverGreen
Eco-Friendly Banana Leaf Packaging Unit

EverGreen is a banana leaf Packaging machine that cuts, sterilises with UV rays, boils for increasing turgidity of the leaf, dries, packs and folds dry food. This is developed to reduce usage of cheap toxic disposable plastic for restaurant food.

WorkBit is an interactive, automated & customised laptop stand that adjusts its height, distance and flap to ergonomically adjust to the individual posture. It reminds of the blinks, posture and movement to the individuals suited for their work and body culture.

WorkBit
Smart interactive laptop stand



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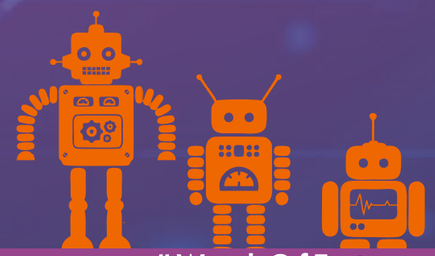

#WorkOfFuture

For free demos & inquiries: **022-489-70926** For support & customer care: **022-489-72066**

info@onmyowntechnology.com **www.onmyowntechnology.com**

MUMBAI - Lokhandwala | Juhu | Prabhadevi | PUNE - Kharadi

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