

ANIL GOSAVI



Special Purpose Machine
Designer and Developer

CONTACT

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Intuitive Purpose

To synthesize the artistic approach and engineering knowledge in design of special purpose machines with the intent for advancement in the society, for economical and sustainable solutions.

Professional Expertise

- Creative and Artistic Approach.
- 25 years of industrial design experience.
- Integration of multiple work fields, including
 - a. Food Processing
 - b. Sanitation.
 - c. Industrial Automation
 - d. Agriculture Machineries
 - e. Non conventional Energy.

HOBBIES & INTEREST

- Mountaineering and Trekking
- Musical Instruments and Singing

CONFERENCE & EXHIBITIONS

- "Reinvent the toilet fair March 2014"
New Delhi (Organised by Bill and Melinda Gates Foundation on the platform of Asian Institute of Technology (AIT), Thailand)
- National Science Congress 2017 at Baramati



PROFESSIONAL SUMMARY

Proprietor - Climber Engineers Pune

Director - Climber Enviro Solutions LLP Pune

Technical Consultant for Product Development -

1. Climber Systems
2. Vigyan Ashram, Pabal, Pune (NGO)
3. Trustee at Appropriate Rural Technology Institute (ARTI), Phalatan, Pune. (NGO)
4. External Industrial guide for the Engineering students



ACADEMIC HISTORY

B.E(Mech.) - Govt. College of Engineering, Pune (COEP)
11th & 12th Std.-- Vocational Subject
(Mechanical Maintenance)
5th to 10th Std.-- Technical Subject (Carpentry,
Black smithy, Fitting & Machining)



PATENTS

Initiated in sanitation for Modular Toilet



AWARDS

- Forbes Marshal Award for Excellent Concept and Design of Pani Puri Vending Machine. (2005)
- MCCIA 'Ramabai Joshi Award for Innovative Product' Rice De-husking Machine (2019)

EXPERIENCE

25 Years of work experience in Machine Design and Development in various fields as-

- ❖ Industrial Automation and Robotics
- ❖ Food Processing
- ❖ Agriculture
- ❖ Sanitation
- ❖ Sugar Industry
- ❖ Pharmaceutical
- ❖ Non Conventional Energy
- ❖ Water and Waste water Treatment

As a Mechanical Engineer, has an experience of design, develop and manufacture the Special Purpose Machines required for the above fields. Some designs and developments are now products of Our Group of Companies - Climber.

Also have been into machine developments for NGO's like Agharkar Research Institute, Vigyan Ashram, Symbiosis Research Institute, Science Park Pune.

Following are some details of systems designed :---



Industrial -

- Material Handling Systems, Different types of Conveyors, Pick and Place Systems, Robotic Welding Cells,
- Acoustic Enclosures for CNC Machines,
- X-ray Chamber , Telescopic guards and Enclosures for CNC Machine,
- Cable Ducts , Trays, Drag chain Toughs, Coolant Tank,
- Auto Batch System, Sugar Dust Collecting System,
- Machine Retrofitting and reconditioning , Special Purpose Machines
- Industrial Washing Machines,
- Jig and Fixtures, Hydraulic and Pneumatic Systems,
- Wood Working Machines,
- Fumes Extractions and Filtration Systems, Dust Collectors,

EXPERIENCE



Agriculture –

- Mini Power Tiller, Trimmers,
- Ground Nut Decorticator, Sunflower , Sweet corn Seed Removal Systems (Manual and Motorised)
- Pulse jet and IC Engine based Fumigation,
- Battery Operated Sprayer, Tractor Mounted Air Blaster, Various Manual and animal driven agriculture tools like weeder, planters ,
Water Heater Systems Using Biomass ,
- Rice De husking Machine for Brown Rice (hatsaDI tadUL) (with Vigyan Ashram, Pabal, Pune)



Sanitation –

Designed and Developed The Following Types Of Modular Toilet Super Structures

- PCC (Precast Cement Concrete)
- CFB (Cement Fiber Board)
- ACP (Aluminium Composite Panel)
- FRP (Fiber Reinforced Plastic)

Designed and Developed the Following Types of after processing methods for Toilets

- PCC (Precast Cement Concrete) modular soak pit and modular septic Tank.
- Single Chamber Septic Tank (HDPE/LLDPE/FRP)
- Bio digester Tank (Thermophyllic – as per requirement of Bill and Melinda Gate Foundation)
- Bio digester Tank (DRDO/DRDE Technology)
- Bio digester Tank (Fixed Dome/Floating Dome)

EXPERIENCE



Water and Waste Water Treatment –

- RO plants of various capacities
- Bio STP (Sewage Treatment Plant) DRDO/DRDE Technology and reuse of water.
- Conversion of existing septic tank to Bio tank(DRDO/DRDE Technology).
- Biological STP
- Electro clogging STP
- Solid Waste Management –
 - Domestic Kitchen Waste Digester (1 to 5 kg.)
 - Rotating Drum Composter of Capacities 25Kg/ day to 200 Kg/day (With Vigyan Ashram).
 - Sanitary Pad Incinerator of Various Capacities (With Vigyan Ashram).
 - Sanitary Pad Vending Machine.
 - Reactor for the generation of hydrocarbons from used vegetable oil
 - Reactor for waste management of polyethylene and polypropylene by catalytic conversion into useful hydrocarbon.



External Industrial Guide –

- Worked as a external Industrial guide for the Engineering students for Following Subjects –
 - Pulse jet Engine, Sterling Engines(Hot air Engines), Lapping Machine, Testing for dual fuel engine(Petrol plus kerosene and Diesel plus Bio diesel),
 - Air condition and refrigeration,
 - Air /Screw/Slat/belt and bucket conveyor, Pneumatic Pick and Place Arm, Stepper motor based robotic Arm,
 - Solar track indexing, Polycarbonate based solar water heating systems, Solar Dryer, Solar operated Water pump, Solar distilled Water System,
 - Agriculture dusting machine, Planter cum Weeder , Biomass Based water heating systems,

EXPERIENCE

- Plastic Moulding Machine, PVC conduit fabricated fitting Machine, PVC pipe fabricated fitting Machine, Roto moulding Machine,
- Automated Screen Printing Machine, Round surface Printing Machine, Heat Exchanger, Door interlock systems, Battery Operated Go-cart, Clean Room, Booster Pump (RAM Pump),
- Rotating gate electricity generation, Rotating Air Ventilator, Electricity generation by rotating air ventilator and water turbine,
- Automatic bottle filling machine,
- Pani puri vending machine, Bhel Making Machine, Papad Making Machine, Agarbatti (Dhoop) making machine, Form–fill–pack Machine (cam operated).
- Water Condenser, Variable speed Drive, Electrical and wood furnaces, Rocket Stove, Dust collecting Cyclone, Oil can Skimmer,
- Fire safety Door, Acoustic Enclosure,
- Press Tool, Sheet Metal roller forming-folding- circle cutting- nibbling machine, Pneumatic- Hydraulic Trainer Circuit , Hydraulic cambering Machine for Leaf spring, Spring testing machine.



Designed For –

Designed and Manufactured the Customised Systems for the following valuable companies –

- ❖ Tata Automation Limited(TAL)
- ❖ Cumau Automation
- ❖ Kuka Robotics
- ❖ Electronica Machine Tools Limited.
- ❖ Cummins India Ltd.
- ❖ Banner India Ltd.
- ❖ Behr India Ltd.
- ❖ Hassia Packaging Ltd.
- ❖ Shredar Duncan (I) Pvt. Ltd.
- ❖ Cybernetik Technologies Pvt. Ltd.
- ❖ Anand Machine Tools
- ❖ Konzert Tooling Pvt. Ltd.
- ❖ Guddel Automation
- ❖ Precision Automation Robotics India
- ❖ Alfa Laval
- ❖ Master Handlers
- ❖ American Axel Manufacturing.
- ❖ Emerson India Ltd.
- ❖ Parker Hannifin India Ltd.
- ❖ Nichrome India Ltd.
- ❖ Valient TMS Pvt. Ltd.
- ❖ Fine Automation Ltd.
- ❖ Ahmadnagar Forging Ltd
- ❖ Fine Arc Automation