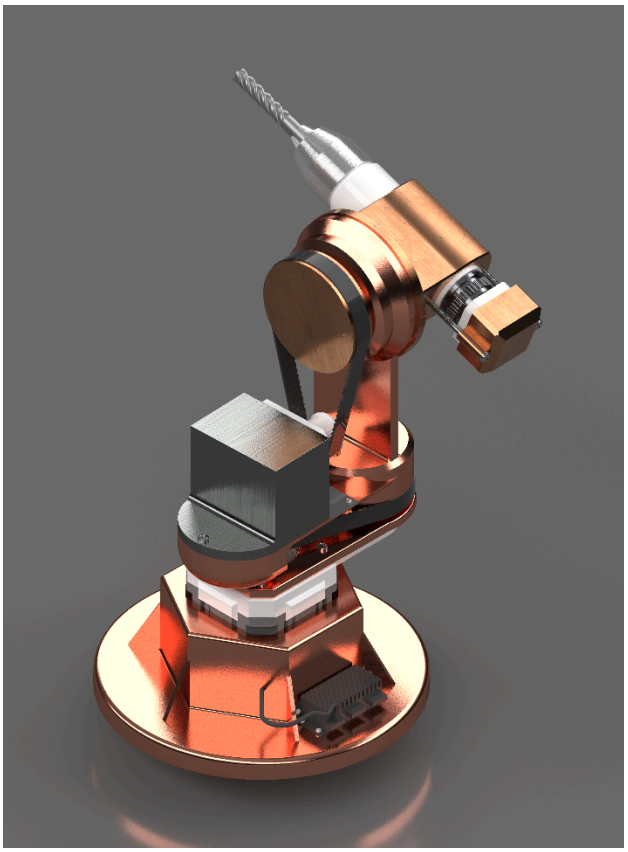
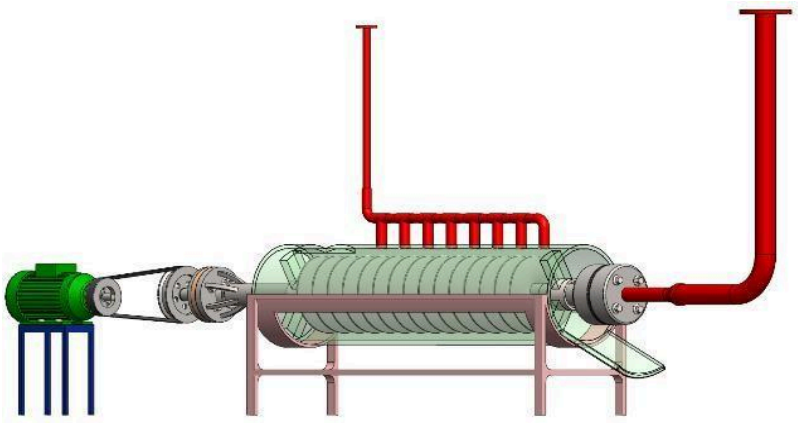


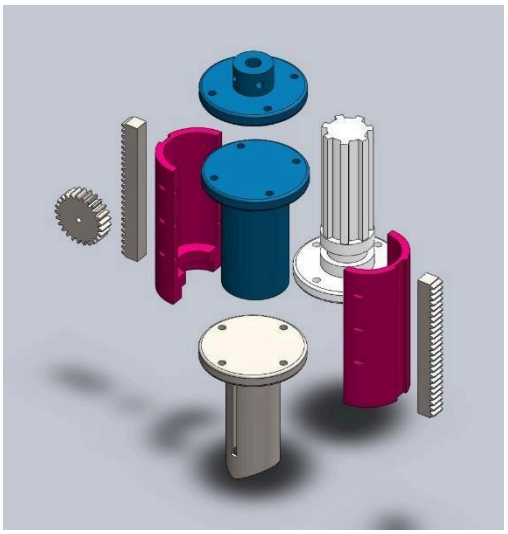
Special Purpose Spherical Milling Machine

3-axis robotic spherical milling machine for pockets/surface machining in spherical and cylindrical object.



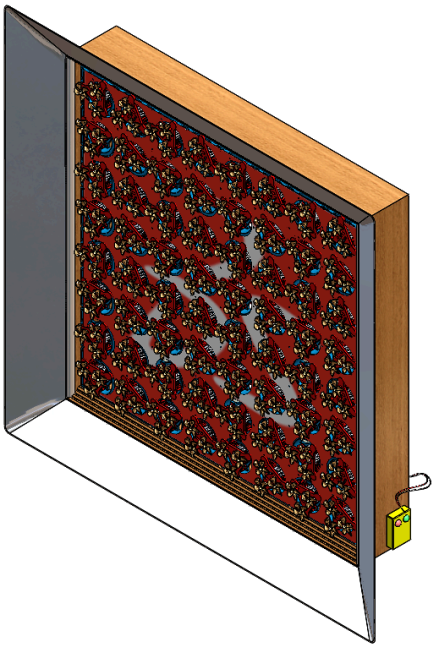
Clen Machine

This design reveals a design proposal for Jacobi groups (Nova Carbon Pvt Ltd. India). A Kaizen project developed to reduce the time delay of the coconut shell coal by removing the excessive moisture content by adapting the available hot steam pipe outlet in reducing the time and improving efficiency during the plasma treatment of coconut shell coal to transform it to activated carbon.



All Terrain Drilling Machine Mechanism

A combination of splines and cotters to control the drill action with extendable action by which it enables the drilling action in all Terrain for various purposes.



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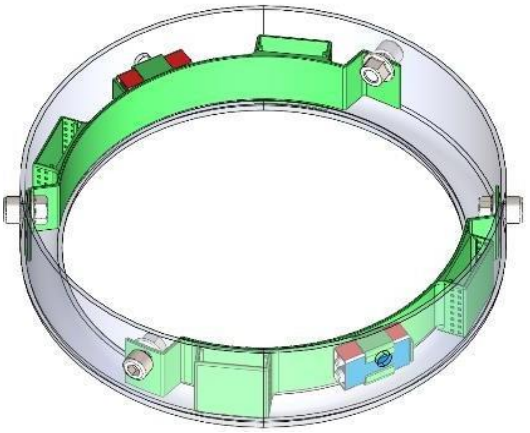
Decorative Power Window

AAKRUTI 2023 – Winning Project

A cubic lego type module with set of tiny propellers connected to an epicyclic gear system to harvest and consolidate energy from low velocity (3-12 m/s) wind into an output rotating shaft. A system of mechanical energy consolidation using epicyclic gear system is a novel idea of capturing low velocity wind energy



Design of Smart tyre using automation in 3DExperience platform



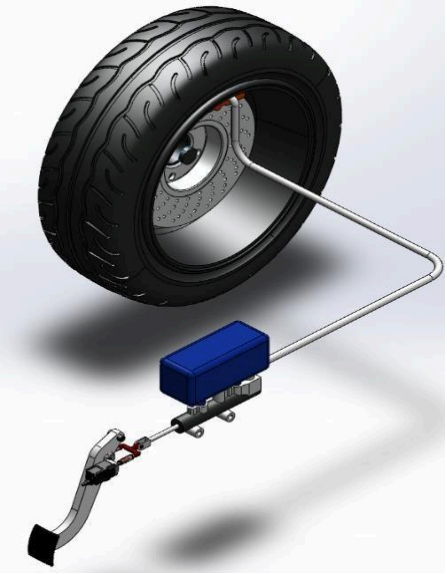
XYMA Analytics – IIT Madras

Complex design constraint for a PCB enclosure and battery for measuring data of a gas cylinder.



PowerGam

The primary purpose of Powergam is to offer a fun and interactive experience to all age group people’s when placed in public parks.
When the user spins the wheel, the electronic processor calculates the muscle throw power by measuring the speed of wheel using a sensor system and displays it on a LED screen.



Intelligent Braking System

The proposed system uses assistive calipers/add-on customized calipers for quick braking and existing calipers provide usual brake. Steering will be operated manually, and the brake is actuated by the driver, if the driver fails to actuate the brake, intelligent brakes are actuated. Whereas acceleration of the vehicle is integrated with the braking system and controlled accordingly by the AI engine.