http://troubleshoot4free.com/fyp/mechanical-engineering-projects/huge-list-mechanical-engineering-project-and-seminar-topics-433.msg571.html

Here is a list you will love

HVAC Thermostat

Torque converter for slow speed motor

Fluid Energy Milling

Modal Analysis on an Exhaust Manifold to define a Catalyst FE-model

Investigation of Methods to Detect Defects in Thin Layered Materials

Snake Well Drill

New Age Tyres

Correlation of Sinusoidal Sweep Test to Field Random Vibrations

Infrared Thermography

Shock Waves and Shock Diamonds

Micro/Meso-scale Manufacturing

Transferring Of Movement For Steering Equipment

ACC-Plus(Adaptive Crusie Control+) System

Cam-less engine with electromechanical valve actuator

Fuzzy Logic Applied to Motor Control

Vacuum Braking System

Pseudoelasticity and Shape Memory in Metal Nanowires

System design & development in calculation of response time for air brake system

Ground Source Cooling System

Rijke Tube

Active Electrically Controlled Suspension

Turning device

Plasma Arc welding

Quantum Chromo Dynamics

Seminar on Hybrid Vehicle

MEMS In Industrial Automation

Trends in welding

Diesel engines working,Repair and Maintenance

Magneto Abrasive Flow Machining

Hybrid Synergy Drive (HSD)

Efficient pneumatic motor design

Training Report on Hydraulic system at BEL

Variable Length Intake Manifold (VLIM)

Flywheel energy storage device

Cable recoil system that does not use a spring, recoil is on a rotating shaft

Vehicle handling, stability, and bifurcation analysis for non-linear vehicle models

Load tests and many other tests on composite material

Automatic automotive block heater connection

Water as an Alternate Fuel

Turbines in silicon

Hydraulic car lift

Hybrid Motorcycles

Space Elevator

Fuel Energizer

Pulse Detonation Engine

Floating Solar Power Station

Advances In Capillary Fluid Modeling

Continuously Variable Transmission

Hybrid Motorcycles

Machine Vision

Space Elevator

Pulse Detonation Engine (1)

# Floating Solar Power Station

# Advances In Capillary Fluid Modelling

# Continuously Variable Transmission (2)

# Hybrid Motorcycles\*

# Machine Vision

# Space Elevator (3)

# Crew Exploration Vechicles

# Vacuum Braking System (4)

# ACC-Plus(Adaptive Crusie Control+) System

# Micro/Meso-scale Manufacturing

# Magneto Abrasive Flow Machining (5)

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\* Cam less Engines

\* tire & wheel without pneumatics

\* Active Electrically Controlled Suspension(61)

\* Variable compression ratio engine

\* Electric power steering units

\*

\* Dynamic Ride Control (DRC)

\* Automatic transmission tiptronic, 5-speed

\*

\* Driver information system (DIS)

\* Sensotronic Braking System

# Cargo storage in space

# Molecular hinges

#

# Aspheric lenses

# Bioreactors

# Jet Stream windmill

#

# Flyash Utilisation

# Mesotechnology

# High Altitude Aeronautical Platforms

#

# Automotive Infotainment

# Advanced Plastics

# Contactless energy transfer system

#

# Handheld Radiation detector

# Sea Power

# Harvesting Wave power

# Bench top wind tunnels

# Molten oxide electrolysis

# Ultra Nano Crystallline Diamond

# Energy efficient turbo systems

# Collision warning system

# Antiroll suspension system

# Porous Burner Technology

# Brake Assisting Systems

# Smart Autoreeling mechanism

\* Direct Manufacturing

\* Fuel cell powered Go-Karts

\* Nano in navy

\* Active roll-over protection system in Automobiles

\* Nanoscale Armor

\* Brake booster

\* biturbo

\* Double-wishbone suspension

\* Dynamic shift program (DSP)

\* E-gas

\* Adaptive air suspension

\* Small Satellites

\* Robot driven cars

\* Process Automation Techniques

\* DurAtomic Process

\* Intelligent Compact drives

\* Portable X-RaY Fluorescence Analyser

\* CeramicLike Coatings

\* Rotating Parallel Grippers

\* Jelly Filled Telephone Cables

\* Aluminium Alloy Conductors

\* HalBach array

\* Magnetic Levitation

\* Magnetic Launching

\* MicroTopography

\* Collision warning Systems

\* Active Front Lighting System

\* Carbon Nanotubes

\* Microbial Fuel Cells

\* Elecromagnetic Valves

\* Stealth Radar

\* Self Aware Robots

\* Eco-Freiendly Surface Treatments

\* Rapid Injection Moulding

\* Carbon Foam-Military Applications

\* Jet Powered Boat

\* Abrasive Etching

\* Air Casters

\* Airbags & ABS~

\* High Speed Precise Gear Boxes

\* Smart Ammunitions

\* Robotics~

\* Sono bouys

\* Active Decoy Systems

\* Full Colour 3D Modelling Using Rapid Prototyping

\* Underwater Welding~

\* Micro Gravity

\* AeroCapture

\* Single Crystal Turbine Aerofoil

\* Space Station~

\* Inter-Continental Ballistic Missile (ICBM)

\* Sky Rocket

\* Jetex Engine

\* Electrochemical Machining (ECM) & EBM~

\* Concept Cars

\* Research Aircrafts

\* Hydroplane

\* Cell Integration Into A Manufacturing System~

\* Micro Batteries

\* ArcJet Rocket

\* Global Positioning System~

\* Pulsed Plasma Thruster

\* Resistojet Rocket

\* Floating Power Stations~

\* Water Rocket

\* Ablative Materials

\* Aircraft Propeller~

\* Air- Augmented Rocket

\* Aerospikes

\* Space Shuttle Boosters

\* Electronic Road Pricing System~

\* Advanced Rocket Motors

\* Space Shuttle

\* Rocket Powered Aircraft

\* Electronbeam Machining~

\* Hydrogen Generation via Wind Power Electrolysis

\* Combustion Research

\* Virtual Reality~

\* Liquid Injection Thrust Vectoring (LITV)

\* Energy Saving Motors

\* Blended Winged Aircraft

\* Nanoscale Fractals

\* Nanomaterial Based Catalyst

\* Regenerative Fuel Cells

\* Self Repairing Composites

\* Laod Sensing Hydraulics

\* Modular workstations

\* Stereoscopic Projection Systems

\* Virtual Reality Visualisation

\* Steer- By -Wire

\* Advanced Off-set printing

\* Hybrid Synergy Drive

\* Risks of Nano Engineered Particles

\* Rotating Scroll Power Compressor

\* Nano Spreader Cooling

\* Self Extinguishing PVC's

\* Electromagnetic Clutches

\* Hypersonic Space Planes

\* Rapid Design for Lean Manufacturing

\* Bio-ethanol As Fuel

\* Snake robots

\* Compression Tube fittings

\* Supercase Hardening process

\* Over-the-wing Engine mount configration

\* Personal Transporters

\* Magnetic refrigeration

\* Design of an active car chassis frame incorporating magneto rheological fluid

\* All- wing Technology

\* High speed Propellers

\* MEMS – a pollution free option for power generation

\* Improving aerodynamic performance of an aerospace vehicle

\* Electromagnetic Brakes

\* Antimatter -the ultimate energy

\* Lean to Steer Concept

\* Helicopters

\* Tidal technology

\* Thin Vacuum Conveyors

\* Hybrid vehicles

\* Six stroke engines

\* Scramjet engine

\* Probabilistic design of mechanical components

\* Regenerative braking

\* Damage identification in aging aircraft structures with piezoelectric wafer active sensors

\* 3 Axis Digital Accelerometer

\* Smart material actuators

\* Biologically inspired robots

\* mass airflow sensor

\* Guided Missiles

# Computational Fluid Dynamics

# Data Fusion for Quality Improvements

# Rocket Powered Aircraft

# Space Shuttle

# Hybrid Wind Electrolysis System

# Cargo Storage in Space

# Self Healing Space crafts

# Elecro Magnetic Flowmeters

# Green Factory

# Threadless Couplings

# Micro Moulding

# Metal Nanoshells

# Floating Wind mills

# Micro Hydraulics

# Diamond Cutting Tool And Coatings

# Ball Piston machines

# Atkinson cycle engine

# Artificially Engineered Material Composites

# Atomistic Characterization of Dislocation Nucleation and Fracture

# Special materials for ultra low temperature applications

# Magnetic Bearing

# Solar power Tower

# Cylinder Deactivation

# Electric Rocket Engine

# Micro scale regenerative Heat Exchanger

# Semi automatic transmission

# Ergonomics

# Electrostatic precipitator

# Space stations

# Semi solid Casting

# Antilock Braking System

# Reusable Launch Vehicles

# Crystaline Silicon Solar Cells

# Ball valve

# Magnetic Bearing

# Space Robotics

# Ocean Thermal Energy

# Lean Burn Spark Ignition Engine

# Variable Speed Drives

# Durable Prototyping

# Simple Constitutive Models for Linear and Branched Polymers

# Hydrogen Fuel Tank

# Portable Power

# Cryogenic Ball Valves

# Telematics

# Computer Modelling

# LASER Sintering

# In Mould Lamination Technique

# Thermostatic Refrigerator

# Space ShuttleSemisolid Casting

# The Atomic Battery

# Smart combustors

# Biofiltration

# Magnetic Refrigeration

# Hydro Jetting

# E85Amoeba Organization

# Recent Advances in Statistical Quality Control

# Cylinder Deactivation

# Sustainable Engineering

# Hydro Drive

# Expert Technician System

# Re-Entry Of Space Vehicle

# Supercavitation

\* Micro-Scale Milling

\* stratified charge engine

\* CVCC

\* Tip Tronic Gear transmission

\* STEP CAD

\* New Age Tyres

\* Smart Materials

\* Wind From The Sun-Power Plant

\* Solar Powered Refrigerator

\* Liquid Hydrogen as an Aviation Fuel

\* Robotic Pioneering

\* BlueTec

\* Active Electrically Controlled Suspension

\* Air Cushion Vehicles

\* Babbitt metal

\* Hyperplane

\* Robotic Assistants For Aircraft Inspectors

\* Robots In Radioactive Environments

\* Therrmophoresis

\* Modern Air Pollution Control Technologies

\* Common Rail Direct Injection (Crdi) Engines

\* Thermo Hygrometer

# Future of Portable Power

# Automobile Air Conditioning

# Transfer Machines

# Micro- and Nano-Mechanics of Surface Contact Plasticity

# Spark Sintering

# IT Application in Complex Syatem Analysis

# Research and Materials of Armor Design

# Carbon Nanotubes

# Wireless Energy Transmission

# Hydraulic Elevators

# Solar Heat Energy Storage In Phase Change Materials

# Dynamics of Cutting Viscoelastics Materials

# Snaps To Replace Screws

# Vibration control Techniques

# Pyrometers

# Power From Space For Use On Earth

# Advanced Propulsion Methods

# Super Charging

# Metal-Matrix Composite Processing

# VANOS (Variable Nockenwellen Steuerung)

# Frictionless Compressor Technology

# Bearing Life Measurements

# Flywheel Batteries

# Highly Productive And Reconfigurable Manufacturing System, (Hiparms)

# Hydrogen Car

# Active Control of Near-Wall Turbulent Flow

# Power frequency magnetic fields

# Multi Valve Engine

# Power System Contingencies

# Non Destructive Evaluation Techniques

# Trenchless Technology

# Recycling Of Plastics

# Low Cost Spacecraft Simulator

# Particle Reinforced Aluminium Matrix Composites

# Total Productive Maintenance

# New Finite Element Analysis for Unsteady 3D Natural Convection

# Electric Automobiles

# Modern Air Pollution Control Technologies

# Expert Technician System

# Explosive Welding

# Orbital Welding

# Welding Robots

\* Flying on Water

\* Applications Of Nanotechnology

\* EURO V

\* Piezoelectric Actuators

\* Electric Cylinders

\* Visualization and Computer-Aided Design

\* Thermo Acoustic Refrigeration

\* Technology-Based Entrepreneurship

\* Turbofan Engines

\* Underwater Welding

\* Directed Energy

\* mechanosynthesis

\* Super Air Nozzles

\* Finite Element Analysis

\* Diffusion Flame Shapes And Thin Filament Diagnostics

\* Boosting Gas Turbine Energy Efficiency

\* Flexible Manufacturing Systems

\* Iontophoresis

\* Perpetual Motion Machines

\* Advanced Cooling Systems

\* Hydrogen Production using Nuclear Energy

\* Modern Centrifugal Compressors

\* Pneumatics Control Systems

\* The Engineering Research Role in Environmental Noise Control

\* Micro- and Nano-Mechanics of Surface Contact Plasticity

\* Air Powered Cars

\* Fuel Energizer

\* MegaSquirt

\* Highly Productive And Reconfigurable Manufacturing System(Hiparms)

\* Aerodynamics

\* Regenerative brake

\* Space Shuttles And Its Advancements

\* Condenser Bushing

\* Refined IC Engines

\* Future Cars

\* Glass Glue

\* FADEC - Full Authority Digital Engine Control.

\* Ultrasonics and Acousto-Optics for the Nondestructive Testing of Complex Materials

\* Cooling and Lubrication of Engines

\* Air Suspension system

\* Sensotronic Braking System

\* Moulds in Casting of Plastics and Thermoforming

\* Performance Analysis of Manufacturing Systems

\* ConCurrent Engineering

\* Diesel Particulate Filter

\* Weber carburetors

\* Corrugated Metals

\* Future of FEA iN MAnufacturing

\* Butterfly valvecatalytic converter

\* VTEC

\* Ballastic Particle Manufacturing

# Jet Engine

# Plasma Science

# Knowledge Based CAD for Technology Transfer

# Propulsion Subsystems

# Solar Cells and Solar Cell Moduls

# Electricity From Ocean Waves

# Safety Systems

# Scuderi Split Cycle Engine

# Gaseous Pyrolysis

# Biomimetics

# Low emission gas turbine

# Influence of an iron fuel additive on the performance and emissions of a DI diesel engine

# Guided Missile

# CVT

# Pneumatics Control Systems

# Computer Aided Process Planning (Capp)

# F1 Track Design And Safety

# Solar Ponds

# Metal-Matrix Composite Processing

# Systems Modeling and Simulation

# Biomechatronic Hand

# Total Productive Maintenance

\* Air Ship

\* Tool Management System

\* Opto-Electronic Sensor System

\* Forge Welding

\* 4-Wheel Independent Suspension

\* Glass Making

\* Advanced Energy Conversion Systems

\* Instrument Landing System

\* Variable Valve Timing In I.C. Engines

\* Telematics

\* Pasteurization

\* Breakthroughs in Engine Efficiency

\* Virtual Prototyping

\* Scrubber.

\* Computer-Aided Geometric Design

\* Solar Ponds

\* Robotics & AI

\* Tyre Threading

\* High Efficiency Heat Exchanger

\* CFD In Weather Forecasting

\* Testing of Welds

\* Advanced Composite Materials

\* Topographic Characterization and Modeling of the Precision Surface

\* Nuclear Waste Management

\* Roller Pumps

\* Nanoventions Micro-optic Modeling

\* Ultrasonic NDE and Characterization of Aerospace Materials

\* Composite Materials

\* Hydrogen Energy

\* Stereolithography

\* Predictive Engineering

\* Self Monitoring Pneumatic systems

\* Elasto-Capillary Thinning and the Breakup of Complex Fluids

\* Ballistics

\* Super Charging

\* Freeform Manufacturing

\* Contaminant Removal from Soils by Electric Fields

\* Modern Manufacturing Processes

\* Nanomaterial

\* Thermal Barrier Coatings

\* Cold Or Contact Welding

\* System Identification and Adaptive Control

\* Composite Material

\* Skid Steer Loader And Multiterrain Loader

\* Control Of Point Of Operation Hazards

\* Diffusion Welding

# Models Of Random Damage

# Test Ranges / Facilities/Readiness

# Intelligent Vehicles

# 3D Solar cells

# Intelligent Vehicles and Automated Highways

# Self Monitoring Pneumatic systems

# Magnetic Resonance Imaging

# Globe valves

# Photomechanics

# Load Cells

# Microscale Breaking Waves And Air-Sea Gas Transfer

# Analysis and Design Methods of Distributed Sensor

# Systems for Manufacturing Quality Improvement

# Fused Deposition Modelling

# Temperature Resistant Alloys

# Variable Speed Drives

# Rapid Re-Usable Tooling

# Liquid Engineering

# Solid Base Curing

# The Hy-Wire Car

# Acoustics in Engineering

# Secure User Authentication Using Automated Biometrics

# Biomechanics

# Plastic Welding

# HVDC Transmission

# Self-Assembly For Nano And Micro Manufacturing

Smart Materials

\* Boimetrics: An Unparelled Security Check System

\* HyperTech Engine

\* Blasting cap

\* Modular Cam Locks

\* Injection Moulding

\* Nanotechnology & Mechanical Engineering

\* Embedded Computing in Mechanical Systems

\* Friction Welding

\* Drag Racing

\* Humans and Energy

\* Metamorphic Robots

\* Instrument Landing System

\* Optical trapping and manipulation of small particles

\* Fuel Cells On Aerospace

\* Written-Pole Technology

\* Adaptive compensation of DTV induced brake judder

\* Different Types Of Injection Systems And Emission

\* Reduction Technology

\* Selective Plating

\* Desktop Manufacturing

\* ABS System

\* Electric Cylinders

# Hydro Electricity

# VVT-i

# Economical E-Beams

# Weapon Engineering / Design

# Thermal Platic Composities

# gate valve

# Hybrid Electric Vehicles

# Nanocrystalline Thin-Film Si Solar Cells

# Triptronic Automatic Gear Transmission

# Thermoacoustic Refrigerator

# Microengines for microprocessors

# Skid Steer Loader And Multiterrain Loader

# Mechanical Behavior of Filament-Wound Pipes

# Advances in Gas Turbine

# Trenchless Technology

# Sports Plane

# Symmetrical All Wheel Drive

# Motors Without Mechanical Transmissions

# Practical Fuel-Cell Vehicles

# Diamond Cutting Tool And Coatings

# Smart Material

# Carbonfibre On F1 Cars

# Laminated Object Manufacturing

# Rheology

# Micro Turbine

# Multi Valve Engine

# Development Status Of Superconducting Rotating Machines

# Radar Guns and Laser radar Guns

# In Mould Lamination Technique

# Lenoir cycle

# Design, Analysis, Fabrication And Testing Of A Composite Leaf Spring

# HANS

# Macromolecular Hydrodynamics

# Application of GPS in automobiles

# Gas Transfer Systems

# ElecroHydraulic Sawmills

# Battery Electric Vehicle

# IGES CAD

# MultiJack Bolt Tensioners

# Long Term Mine Reconnaissance System

# Material science including Nano-science

# Rubber Products by Calendaring

# Unmanned Mine Spotter

# Hydrogen Vehicle

# Microair Nozzles For Precision

# Space Craft Propulsion

# Inverse Design of Thermal Systems

# Biomass Fuelled Power Plant

#

# Plug-In-Hybrid Cars

# Micro Pumps

# Nano Robotic Manipulation System

# Cryogenic Grinding

# Non-conventional Energy Sources

# Composite materials for aerospace applications

# MAP sensor

# Advanced Airbags

# Mass Rapid Transit System (MRTS)

# Biomass Fuelled Power Plant

# Hydroplanning

# Direct shift gearbox (DSG)

# Energy-absorbing bumpers

# Radar Guns

# Liquid Hydrogen as an Aviation Fuel

# green engine

# ceramic Inserts

# Pneumatic forming

# Air Suspension system

# Water jet cutting technology

# Continuously Variable Transmission

# Night Vision

# Direct Reduction Iron

# Mordern Prototyping Methods

\* Vertical takeoff and landing aircrafts

\* Laser radar Guns

\* Automation in building construction, agriculture etc

\* Precision manufacturing and Inspection

\* Reliability and risk analysis

\* Optimisation of Mechanical Systems

\* Cruise missile technology

\* Fast breeder reactor technology

\* Advanced safety features in nuclear reactors

\* Reusable launch vehicles

\* MHD submarine

\* Pyrometers

\* Jetropha based biodiesel

\* Free Electron Laser

\* Durability in Design

\* Failure mode evaluation and criticality analysis

\* Green fuels

\* MEMS(Micro Electro Mechanical Systems)

\* Aircraft Maneuverability

\* Piston less dual chamber rocket fuel pump

\* Traction control

\* Adaptive Cruise Control

\* Vacuum Work holding

\* New rolling technique for texturing

\* Acoustic Parking Systems

# Precision Engineering and practice

# Automobile design

# Tyre ReTreading

# Liquid Hydrogen as an Aviation Fuel .

# Two Stage Fuel Injection System

# Geothermal Power

# Reverse Engineering

# Transonic aircraft

# MHD Submarine

# Can a ship fly?

# Air pollution from marine shipping

# Modified four stroke engine

# Sensotronic Brake Control System

# Avionics

# Smart aerospace structures

# CAD/CAM software packages used in Mechanical Engineering

# Exoskeleton for human performance augmentation

# JIT

# Vertical Axis Wind Turbines

# Work Zone Safety

# Powered Industrial Trucks

# Bio-fuels for automobile propulsion

# Color Tinted Electropolished Surfaces

# Application of high-speed trains to existing rail routes

# Shock Response Spectrum

# Flexible shafts for power transmission

# Relativistic quantum field theory (RQFT).

# Developments of energy storage and power density for secondary road vehicle fuels

# Thermic Turbo Machinery

# Hydro-Aerodynamic

# Polymer Nanocomposites

\* Formula 1 cars: Aerodynamics, Steering Wheel, Safety, Engines

\* Intelligent cars

\* Adaptive Light patterns for Automobiles

\* Negative Pressure Supercharging

\* Exoskeleton for human performance augmentation

\* Application of advanced materials in automobiles

\* Hybrid/Electric/Fuel cell vehicles

\* Advanced Ferryboat Technologies

\* Nano Electro Mechanical Systems(NEMS)

\* Recent trends in emission control techniques for engines

\* Soft lithography

\* 6 stroke engine

\* Magnetorheological Fluids

\* Pistonless rocket Engine

\* Microlithography

\* Vision Systems for Safe Driving

\* Airbus A380

\* Prediction of Creep Failure using FEA

\* Latest Suspension Systems

\* Use of Space Technology /Energy for Human Welfare

\* Protection of Communication systems from Solar Flares

\* Dry Ice Blasting

# Enhanced Geothermal Systems (EGS)

# Variable timing Valve Trains (VTVT)

# Pressure Sensitive Paint

# Ion Drive Engine

# acoustic parking system (APS)

# Flapping wing aircrafts

# Quality Function Deployment