



# **IGEEKS TECHNOLOGIES**

## **Software Training Division**

**Academic Projects for BE, ME, MCA, BCA and PHD Students**

### **IGeekS Technologies (Make Final Year Project)**

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**Land mark: Near to Mantri Mall, Malleswaram Bangalore**

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# MECHANICAL PROJECTS

## **FABRICATION PROJECTS**

1. HYBRID POWER GENERATION (SOLAR AND WIND) FOR OPTIMIZING MOTOR AND LIGHT
2. HOVER CRAFT MODULE
3. QUADCOPTER
4. FLYWHEEL BASED REGENERATIVE BREAKING
5. AUTOMATIC CONVEYOR BELT WITH PICK AND PLACE AND DIGITAL COUNTER.
6. AUTOMATIC GUN FIRING SYSTEM FOR MILITARY APPLICATION.
7. PUSH OPERATED SPRAY PUMP, MECHANICAL FABRICATION PROJECT
8. EFFICIENT POWER GENERATION AND MULTI PURPOSE OPTIMIZATION
9. PICK AND PLACE ROBOT WITH GRIPPER
10. SMART WINDOW
11. MECHANICAL REAL TIME CAN CRUSHER
12. PEDAL OPERATED HACKSAW MACHINE
13. RESCUE DEVICE TO SAVE INFANTS STRUCK IN DEEP PITS
14. HAND OPERATED MECHANICAL RECLINER
15. PIPE INSPECTION ROBOT
16. MOTOR VIBRATION CHECKER WITH SENSOR AND SPEED DISPLAY
17. DESIGN OF MULTIPLE APPLICATION AIRPLANE.
18. ROBOTIC AID FOR COMMANDO OPERATIONS
19. SMART DESIGN BASED HYDRO POWER GENERATION
20. WIND POWER UTILIZATION FOR CAR ANNUNCIATOR
21. FOOT STEP BASED POWER GENERATION.
22. ROBOTIC PICK AND PLACE.
23. DESIGN AND DEVELOPMENT OF PNEUMATIC RIVETING MACHINE
24. DEVELOPMENT OF COLOR SENSOR APPLICATION FOR INDUSTRIAL USE.
25. PNEUMATIC BASED CRANE(TWO/FOUR)CYLINDERS.
26. PORTABLE HYDRAULIC CRANE
27. PNEUMATICS BASED PICK AND PLACE.
28. KROTO FINDER.
29. SMART WINDOW.
30. SOLAR OPERATED DRILL MACHINE.
31. HUMP POWER GENERATOR.
32. GYM POWER GENERATOR.
33. FIRE EXTINGUISHING OR FIRE FIGHTING ROBOTIC VEHICLE WITH RF TECHNOLOGY
34. TRACKING OF SOLAR ENERGY ACCORDING TO TIME WITH LIGHTNING SYSTEM.
35. AUTOMATIC GUN FIRING ROTATION FOR INDIAN ARMY.
36. SOLAR OPERATED CUTTING MACHINE.
37. AUTOMATIC AND REMOTE CONTROLLER SCREW JACK.
38. SOLAR CELL OPERATED MOTOR CYCLE.
39. LIFE SAVER FOR INDUSTRIES MACHINE.
40. AUTOMATIC 2,3 AND 4 POINT DRILL MACHINE.
41. PNEUMATIC BASED NIPPER FOR MECHANICAL INDUSTRIES
42. SOLAR POWER CONSERVATION WITH CHARGE CONTROLLER.
43. SUBMARINES REMOTE CONTROLLED/AUTOMATIC FOR NAVY.
44. WIND MILL OPERATED DRILLING MACHINE.
45. INTELLIGENT COMBAT ROBOT.
46. AUTOMATIC PAGE TURNER

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47. MULTILEVEL CAR PARKING LIFT USING MCU
  48. WIRELESS HAPTIC COMMUNICATION IN REAL TIME ENVIRONMENT USING MECHANICAL HAND
  49. DIGITAL COUNTING MACHINE IMPLEMENTING CONVEYORS USING METAL DETECTION SENSOR (FABRICATION)
  50. REGENERATIVE BREAKING (ELECTRIC).
  51. AUTOMATED METRO TRAIN
  52. SAFEST SAW MILL.
  53. RECYCLING OF CAR-WASH WASTE WATER.
  54. SMART FOOT POWER GENERATION ON PLATFORM
  55. UN MANNED RAILWAY GATE AUTOMATIC OPENING AND CLOSING.
  56. VEHICLE CRANE AUTO/REMOTE CONTROLLED FOR 1KG WEIGHT.
  57. DESIGN OF SOLAR DRYER
  58. OPTIMIZATION OF POWER TURBINE NETWORK.
  59. REALTIME THREADMILL BASED POWER GENERATION AND OPTIMIZATION
  60. WATER PUMP RECIPROCATING.
  61. CAR THEFT AND ACCIDENT PREVENTER.
  62. PORTABLE CRANE.
  63. PICK TO PLACE ROBO USING A COMPUTER TROUGH WIRELESS.
  64. WIND POWER GENERATOR.
  65. SOLAR TRACING SYSTEM WITH WATER PUMP.
  66. WIND MILL OPERATED DRILLING MACHINE.
  67. WIND MILL OPERATED CUTTING MACHINE.
  68. INTELLIGENT COMBAT ROBOT.
  69. LIGHT FINDER ROBOTIC VEHICLE.
  70. LINE FOLLOWING ROBOT WITH FORK LIFT
  71. MOBILE CONTROLLED ROBOT.
  72. UNMANNED FIGHTER.
  73. RENEWABLE ENERGY BASED WASHING MACHINE.
  74. AGRI – CUTTER.
  75. SOLAR SPRAYER.
  76. PEDALOPERATED WASHING MACHINE.
  77. SOLAR AIR HEATER.
  78. GLASS CLEANING ROBOT.
  79. WHITE BOARD CLEANING ROBOT.
  80. WHEEL CHAIR CUM STRECHTER (REMOTE OPERATED).
  81. SOLAR, PEDAL AND BATTERY OPERATED WASHING MACHINE.
  82. PNEMATIC RAMMING MACHINE.
  83. DUAL AXIS SOLAR TRACKING SYSTEM.
  84. BIOGAS DIGESTOR.
  85. 3 IN 1 POWER GENERATING MODEL (SOLAR, RAIN AND WIND).
  86. SOLAR TRACKING SYSTEM WITH PANEL CLEANING MECHANISM.
  87. HAPTIC ROBOTIC ARM.
  88. MULTI-PURPOSE OR 3 IN 1 MECHANICAL MACHINE (DRILL,SHAPING AND HACKSAW).
  89. ROBOTIC CRANE WITH UP/DOWN & CIRCULAR MOTION
  90. BIOGAS FURNACE USING CORN COMB
  91. PNEUMATIC DISC BRAKE
  92. IMAGE PROCESSING BASED PC INSPECTION ROBOT
  93. SOLAR OPERATED AUTOMATIC RAIN WIPER
  94. AUTOMATED GREEN HOUSE MONITORING SYSTEM
  95. MULTI OPERATIONAL AGRI ROBOT
  96. VOICE OPERATED WHEEL CHAIR
  97. EFFICIENT CAR PARKING SYSTEM FOR FOUR WHEELER
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98. FABRICATION OF AUTOMATIC FOOT DUST CLEANING MACHINE
  99. INTELLIGENT ROBOTIC WHEEL CHAIR FOR SPECALITY WITH KEY OPERATIONS AND ADVANCED PATH PLANNING AND ROUTING SYSTEM
  100. FABRICATION FIRE SENSING AND FIGHTING ROBOT

#### **Mechatronics Project List 2015-2016**

2\_LINE FOLLOWER ROBOT

6\_AUTOMATIC DOOR OPENING USING PIR

10\_VEHICLE TRACKING USING GPS AND GSM

11\_HOME SECURITY AND AUTOMATION USING GSM

12\_INDUSTRIAL COOLING SYSTEM

12\_A\_INDUSTRIAL COOLING SYSTEM

13\_AUTOMATIC LIGHTNING AND COOLING SYSTEM

14\_SMS BASED NOTICE BOARD USING GSM

15\_RF BASED TEMPERATURE AND HUMIDITY MONITORING SYSTEM

19\_WIRELESS DOOR MONITERING

21\_A\_AUTOMATIC HIGHWAY SIGNALLING SYSTEM ALONG WITH SPEED CONTROLLING

26\_AUTOMATIC RAILWAY SIGNALLING SYSTEM

31\_DENSITY BASED TRAFFIC SIGNAL CONTROL

39\_FIRE SENSING ROBOT

43\_REMOTE FIRING ROBOT

46\_Speech based wheel chair control for physically challenged person using Android Bluetooth technology

50\_Toll Collection System using RFID

51\_Metal Detecting Robot

52\_PICK AND PLACE ROBOT

52\_A\_RF BASED PICK AND PLACE ROBOT

53\_SMART PARKING SYSTEM

54\_SMS BASED IRRIGATION SYSTEM

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54\_A\_ SOLAR POWERED WATER PUMP WITH SMS ALERT FOR IRRIGATION SYSTEM

62\_FIRE SENSING ROBOT WITH RF AND ALARM

84\_STREET LIGHT POWER SAVER

87\_SEEDING AGRICULTURE ROBOT

99\_VEHICLE CONTROL UNDER DRIVER FATIGUE

100\_AUTOMATIC DRUCKEN DRIVE AVOIDING SYSTEM

101\_IR BASED TOUCH AND GO NEAR TOLLGATE

110\_ Embedded LAND ROVER with Sensor Interface with ZigBee Technology

117\_INTELLIGENT AMBULANCE FOR CITY TRAFFIC

118\_A\_Industrial Automation for Mobile Device using Bluetooth Technology

122\_HITECH JAIL

126\_AUTOMATIC RAILWAY GATE CONTROL USING STEPPER MOTOR

126\_A\_AUTOMATIC RAILWAY GATE CONTROLLER DEPENDS ON TRAIN SPEED

141\_AUTOMATED CAR PARKING USING ULTRASONIC SENSOR

147\_PC CONTROLLED ROBOT

149\_AUTOMATED PARKING GATE CONTROL USING IR

155\_ULTRASONIC BASED DEFENCE SECURITY SYSTEM

157\_RF BASED ROBOT CONTROL WITH TEMPERATURE ALERT

157\_RF controlled vehicle for disabled people with obstacle & fire detection

158\_IR BASED OBSTACLE DETECTION ROBOT

159\_FREE MOVING ROBOT WITH FRONT & BACK IR OBSTACLE

DETECTOR173\_INDUSTRIAL BATCH COUNTER FOR PACKING AUTOMATION

184\_AUTOMATIC SPEED BREAKING SYSTEMS FOR VEHICLES

185\_Head movement based wireless communication with speech alert for Paralyzed Person

198\_FUEL INDICATION & PETROL BUNK DETECTOR

243\_GSM based airport automation

244\_PICK & PLACE ROBOT WITH FIRE SENSING

275\_ZIGBEE\_BASED\_INDUCTION\_MOTOR\_speed\_control

276\_GSM Based Industrial Disaster Intimation Control System (GIDICS)

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291\_Bomb detection robot

319\_Renewable energy - 12V DC Power generation using Back EMF & Solar for LED load

329\_COIN BASED MOBILE CHARGER, WATER FILLING AND WEIGHT  
MEASUREMENT SYSTEM

346\_Automatic Dim & Dipper for automobiles

377\_Automatic Steering controlled Fog lamps

387\_Safety helmet for a pilot

401\_HEAVY VEHICLE ALERT & INTIMATION SYSTEM FOR TRAFFIC POLICE USING  
LOAD SENSOR USING GSM

437\_ AUTOMATIC BABY e-CRADLE FOR INFANT CARE

443\_Robust Railway Crack Detection Scheme (RRCDS) Using LED-LDR Assembly

453\_Automated Waste Segregator

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