

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

SNO	Project Title
IOT25	Under pipe travelling robot to detect Gas line leakage and RFID address navigation to cloud over IoT
IOT24	Loco pilot operated unmanned railway gate control to prevent accidents over Internet of Things
IOT21	Gas leakage detection in pipe lines and RFID location reporting to cloud over Internet of Things (IoT)
IOT406	Design of an Intelligent cloud based remote electricity metering and billing System over Internet of Things
IOT411	Advanced vehicle tracking system with cloud based geo-position monitoring system on smart phone
IOT420	Smart street lights and fault location monitoring in cloud over IoT
IOT245	Patient health monitoring (heart beat and body temperature) with doctor alert reporting over internet of things (IoT)
IOT252	Breath and Lungs health analyzer with Respiratory analyzer over IoT
IOTBP	Non-invasive Blood Pressure Remote Monitoring over internet of things (IoT)
IOT07	Building smart cities: Automatic gas cylinder booking over IoT
IOT08	IoT solutions for smart cities: Garbage dustbin management system and reporting to municipal authorities over IoT
IOT16	Public water supply grid monitoring to avoid tampering & water man fraud using Internet of Things
IOT254	Movable road divider for organized vehicular traffic control with monitoring over internet of things (IoT)
IOT255	Automation of dry-wet dust collection to support Swachh Bharat Abhiyaan and monitoring over internet of things (IoT)
15EM25	Android based blood bank system with in ARM7 based LPC2148 as data server
WK414	Denial-of-Service Attack for Mobile Phones to deny the weaker radio spectrum of cell phone tower for Jammer applications with Prescheduled Time Duration
WKC7	Target directions identification with Radio detection and ranging: model

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

	RADAR
WYRF12	RFID based pesticides dosing with automatic plant irrigation for agriculture applications
WYRF13	Construction of Central Control Unit for Irrigation water pumps. Cost effective method to control entire villager's water pumps with user level authentication
WK419	Woman security assistance system with GPS tracking and geo-position messaging system
WKS2	Peltier plate thermo cool technology: Medicine Refrigeration for rural and flood affected areas - Fast chilling photo voltaic refrigerator
WK234	Direction control of photo voltaic panel according to the sun direction for maximum power tracking (Model Sunflower)
WKS10	Photo voltaic E-Uniform with Peltier plate thermo cool technology for soldiers who work at extreme high temperature or extreme low temperature to warm up or cool down body temperature
WKS18	Agricultural solar fence security with automatic irrigation and voice announcement alert on PIR live human detection
WKS8	Aerodynamic wind mill with reverse charge protection for rural power generation applications with battery voltage analyser
WKS9	Super capacitors / ultra-capacitors as alternative energy storage application with voltage analyzer
WKS11	Foot step power generation system for rural energy application
WKS19	Seebeck effect for implementation of miniature thermal plant using TEP transducer for industrial and domestic power generation
WK256	Automatic movable railway platform with train arrival detection
WK247	Ultra Violet Sterilization System with UV Lamp Failure Detection and content Volume Monitoring using Magnet Sensor
WK248	Intelligent car wash system with infrared proximity sensor triggered conveyor belt arrangement using AT89S52 MCU
WK204	Super sensitive Industrial Security System with Auto dialer & 60dB loud siren using AT89S52 MCU
WK246	Gesture Controlled Speaking Micro Controller for the deaf & dumb
WK251	Next Generation Braille System Implementation: Mobile Communication

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

	Device for the Blind
WK243	Density based traffic light system with auto traffic signal transition for VIP vehicles / ambulance
WK219	Electronic Notice Board with LED Dot Matrix Display and PS2 key board interfacing for user friendly message entry
WYT41	Wireless Speech Recognition enabled smart home automation for the blind and physically challenged

Internet of Things (IoT)

SNO	Project Title
IOT25	Under pipe travelling robot to detect Gas line leakage and RFID address navigation to cloud over IoT
IOT24	Loco pilot operated unmanned railway gate control to prevent accidents over IoT
IOT344	Advanced Aircraft anti-collision system using Zigbee communication and reporting to ground station over internet of things (IoT)
IOTC7	Implementation of model RADAR target direction identifier with remote monitoring over internet of things (IoT) platform
IOT204	Super sensitive Industrial Security System with 60dB loud siren and monitoring over internet of things (IoT)
IOT22	Multi zonal security monitoring and cloud reporting over IoT using pet-immune PIR sensor
IOT23	Cloud based model RADAR for target direction and distance identifier
IOT01	Smart irrigation based on soil moisture and cloud monitoring over Internet of Things
IOT14	PV solar panel grid and battery voltage monitoring in cloud over IoT
IOT15	Power quality, continuity and load monitoring in cloud over IoT
IOT19	Dam gate level monitoring for water resource analysis and dam

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

	gate control over IoT
IOT21	Gas leakage detection in pipe lines and RFID location reporting to cloud over IoT
IOT207	Programmable temperature monitor and controller for industrial boilers & ovens with live monitoring in cloud over internet of things
IOT224	Industrial device control over IoT based Wi -Fi module
IOT214	Automatic Room Light control with Visitor Counting for power saving applications and monitoring in cloud over internet of things
IOT203	Petrochemical Level Indicator and Controller for Automation of cotton purification process in spinning mills with IoT monitoring
IOT339	Weather station monitoring in cloud over internet of things (IoT)
IOT245	Patient health monitoring in cloud (heart beat and body temperature) with doctor alert reporting over internet of things
IOT252	Breath and Lungs health analyzer with Respiratory analyzer over internet of things (IoT)
IOTBP	Non-invasive Blood Pressure Remote Monitoring in cloud over internet of things (IoT)
IOT07	Building smart cities: Automatic gas cylinder booking over IoT
IOT08	Building smart cities: Automatic gas cylinder booking over IoT
IOT09	Bus tracking system for passenger information in cloud over IoT
IOT10	Parking slot availability check and booking system over IoT
IOT11	Smart cities: Traffic data monitoring over IoT for easy transportation / alternative route selection
IOT16	Public water supply grid monitoring to avoid tampering & water man fraud using IoT
IOT17	Visitor counter for museums and data posting to IoT
IOT18	Toll gate traffic monitor and analyzer using IoT
IOT20	UV Light radiation detection and posting data to IoT to warn people
IOT406	Design of an Intelligent cloud based remote electricity metering

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

	and billing System over IoT
IOT420	Smart street lights and fault location monitoring in cloud over IoT
IOT254	Movable road divider for organized vehicular traffic control with monitoring over internet of things (IoT)
IOT255	Automation of dry-wet dust collection to support Swachh Bharat Abhiyaan and monitoring over internet of things (IoT)
IOT256	Automatic movable railway platform with train arrival detection and monitoring over internet of things (IoT)
IOT247	Ultra Violet Sterilization System with UV Lamp Failure Detection and monitoring over internet of things (IoT)
IOT250	Underground cable fault distance identifier over internet of things (IoT) platform
IOT340	Advanced railway track fault detection and reporting over internet of things (IoT)

Drones / Unmanned Air Vehicles (UAV) / Multirotors

SNO	Project Title
UAV01	Design and implementation of Quadcopter drone with KK 2.1.5 flight controller
UAV02	Design and implementation of Hexacopter drone with KK 2.1.5 flight controller
UAV03	Design and implementation of Tricopter drone with KK 2.1.5 flight controller
UAV04	Design and implementation of Quadcopter drone with CC3D flight controller
UAV05	Quadcopter drone for flower showering in events
UAV06	Celebrity Drone: Hexacopter drone for logo and event banner unveiling
UAV07	Kisaan Drone: Pesticides spraying drone for Agriculture applications
UAV08	Hawk Drone: Video capturing Drone for defense applications with 2-axis motorized camera stabilization
UAV09	Sanjeevani ♦ GPS powered Air Ambulance Drone for emergency medical services

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

UAV10	Rakshak: Police patrolling drone with flash light and 60dB siren for riots control
UAV11	E-Nose: LPG sensing Drone for leakage inspection of gas pipelines
UAV12	Multi terrain Drone to travel on ground, water surface and in the air

Android based Embedded Projects

NO	Project Title
AND313	Android based home automation with fan speed control
AND210	Android based password based door lock system for industrial applications
AND219	Android based electronic notice board (16X2 LCD)
AND235	Android based digital heart beat rate and temperature monitoring system
AND411	Android based vehicle tracking system
AND419	Woman security assistance system with GPS tracking and messaging system
ANDR1	Android based Robotic Arm with Base Rotation, Elbow and Wrist Motion with a Functional Gripper
ANDR2	Android based Metal Detecting Robot with Remote Voice and Image Transmission to assist bomb detection and rescue team
ANDR5	Android based hand gesture based robot control using (mobile inbuilt Micro Electro Mechanical Sensor) MEMS technology
ANDR8	Android based RF Controlled Robotic Boat to Travel in Water with Wireless Video and Voice
ANDR9	Android based Fire Fighting Robot with high pressure water sprinkler
ANDR10	Android based LPG Detecting Robot with wireless Voice and Image Transmission
ANDR16	Android Based farmer friendly Agricultural Robot with

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

	motorized shovel control System with automatic seed dispensing system
ANDR18	Android Based Pole climbing Robot for surveillance application with voice and image recording in SD card / Memory card
ANDR21	Android based multi Terrain Robot to travel on water surface, Indoor and outdoor uneven surfaces for defense applications
ANDR22	Android based intelligent speech recognition and voice operated robot

Projects based on ARM11 based Raspberry Pi with Linux Environment

SNO	Project Title
RP1	Android based home automation with fan speed control
RP2	Optical Character Recognition system with voice announcement
RP3	IoT based Home Automation using Email
RP4	Doorbell notify with image capture and forward through Email
RP5	Advance Security System with Intruder Image capture and forward through Email
RPC2	Ultrasonic target range estimation by SONAR technology using ARM11 based Raspberry Pi
RPC14	Advanced user controlled roof top antenna signal tracking system with 10RPM geared DC motor using ARM11 based Raspberry Pi
RP204	Supersensitive security system with auto dialer (owner will be alerted by phone call on intrusion, can listen to the conversation of the thieves on his mobile) using ARM11 based Raspberry Pi
RP337	RF based tsunami detection and remote alert system with 60dB siren using ARM11 based Raspberry Pi
RP108	IR based automatic mirror lamp controller using ARM11 based Raspberry Pi
RP213	High sensitive IR based unmanned railway gate control using ARM11

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

	based Raspberry Pi
RP241	Automatic speed control of vehicle at school zones using IR sensor using ARM11 based Raspberry Pi
RP115	IR based automatic mirror lamp controller using ARM11 based Raspberry Pi
RP119	Diamond security system in museums with loud 60dB siren using ARM11 based Raspberry Pi
RP208	High sensitive LDR based power saver for street light control system using ARM11 based Raspberry Pi
RP228	Automatic dam gate control system with caution alarm using ARM11 based Raspberry Pi
RP236	Intelligent automatic podium light control system using ARM11 based Raspberry Pi
RP239	Automatic plant irrigation system with dry/wet soil sense and controlling 230V water pump for agricultural applications using ARM11 based Raspberry Pi
RP244	Shock proof electrical appliances control system for physically challenged using ARM11 based Raspberry Pi
RPR2	RF controlled metal detecting robot with remote voice and image transmission to assist bomb detection and rescue team using ARM11 based Raspberry Pi
RPR8	RF controlled robotic boat to travel in water for ocean research application using ARM11 based Raspberry Pi
RPR9	RF controlled metal detecting robot with remote voice and image transmission to assist bomb detection and rescue team using ARM11 based Raspberry Pi
RPR10	Wireless RF controlled LPG detecting robot for underground and mining using ARM11 based Raspberry Pi
RPR14	Head movement controlled car driving system to assist the physically challenged using ARM11 based Raspberry Pi

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

Projects based on ARM Processor ARM7 TDMI - LPC 2148

SNO	Project Title
ARM1	Implementing character LCD Device Driver development on LPC2148 ARM
ARM2	Implementation of Data Encryption Standard on ARM(ARM7TDMI) LPC2148
ARM3	Implementation of Serial port device driver using ARM 7 TDMI LPC2148 Controller
ARM4	Real time data acquisition using ARM 7 TDMI processor based LPC2148
ARM5	Interfacing of graphical LCD to LPC2148 ARM Based 32-bit microcontroller
ARM7	Implementation of EEPROM Interfacing with I2C protocol using ARM 7 TDMI
ARM8	H-Bridge based DC Motor speed & Direction control using PWM using ARM 7 LPC2148
ARM34	Data transfer between pc and LPC2148 controller using fiber optical communication
ARM41	Anti-Theft Control System Design Using ARM7
ARM49	Implementing UC/OS-II Kernel Based RTOS Using ARM7 TDMI (lpc2148) based Controller
ARM62	Automatic Dam Gate Control System with Caution Alarm Using ARM7
ARM63	Design And Implementation Of Digital Clock with 16x2 LCD Using ARM7
ARM64	Embedded Rigging free Electronic Voting System with instant results Using ARM7

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

ARM65	Embedded Quiz monitoring system with team performance evaluation Using ARM7
ARM11	GSM based Remote Industrial appliances control system using ARM 7 TDMI LPC2148
ARM12	GSM based advanced transformer load sharing system using ARM 7 TDMI LPC2148
ARM13	GSM based automatic vehicle accident detection with GPS based location identification and messaging system using ARM 7 TDMI processor based LPC2148 Controller
ARM14	Advanced mobile phone signal jammer for GSM, CDMA and 3G networks with prescheduled time duration using ARM 7 TDMI processor based LPC2148 Controller
ARM23	GSM-GPS integration for enhancing public transportation
ARM24	Remote control of smart household based on DTMF
ARM26	A bi-directional guard system design of car based on GPS & GSM
ARM27	An artificial landmark design based on mobile robot localization and navigation
ARM35	GSM Based Remote Monitoring Intelligent System Based on Fingerprint Door Lock using ARM7
ARM35	GSM Based Remote Monitoring Intelligent System Based on Fingerprint Door Lock using ARM7
ARM36	GSM Based Train Reservation System using ARM7
ARM39	Design of an Intelligent SMS based Remote Metering System Using ARM7
ARM40	GSM Based Greenhouse Remote Monitoring System Using ARM7
ARM48	GPS Navigation system with Voice alert for blind people with user recordable locations and messages using ARM7
ARM59	Implementation of High Sensitive GSM Signal Detector with Audio Visual Alert Indication Using ARM7

**HARDWARE PROJECTS FROM S3 TECHNOLOGIES (
EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)**

ARM60	Wireless ATM security with GSM and MEMS Using ARM7
ARM15	A smart ZigBee based wireless weather station monitoring system using ARM 7 TDMI processor based LPC2148 Controller
ARM16	Implementation of ZigBee based multipoint secured PC messaging system ARM 7 TDMI processor based LPC2148 Controller
ARM21	REAL-TIME ATOMIZATION OF AGRICULTURAL ENVIRONMENT FOR SOCIAL MODERNIZATION OF INDIAN AGRICULTURAL SYSTEM
ARM31	Monitoring and alarming system based on ZigBee Technology
ARM42	The Design of Tungsten Mine Environment Monitoring System Based on Wireless Sensor Networks Using ARM7
ARM54	Photovoltaic powered advanced railway track fault inspection system with remote station alert using advanced ZigBee communication with ARM 7TDMI based LPC2148 Microcontroller
ARM56	Vehicle Identification Data Monitoring And Verification System For Traffic And RTO Using Zigbee Technology Based on ARM7
ARM57	Model Radar Implementation, Signal Detection And Various Frequencies Identification With Remote Station Alerting System Using ARM7
ARM58	Touch Screen Based Wireless Smart Home Automation System Using ARM7
ARM17	Biometric finger print based electronic voting system for rigging free governance using ARM 7 TDMI processor based LPC2148 Controller
ARM18	Biometric finger print based bank locker system using ARM 7 TDMI processor LPC2148
ARM25	Adaptive beat to beat heart rate estimation in Ballistocardiogram
ARM43	An RFID-Based System for Pilgrim Management Using ARM7
ARM53	Wireless Patient Health Monitoring System Using ZigBee ,RFID , GSM with wireless automatic doctor alerting through SMS Using ARM7


HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

ARM29	Development of gas leak detection and location system based on wireless technology
ARM6	Industrial Temperature Monitoring and controlling using ARM 7
ARM9	Petrochemical Level Indicator and controller for automation of Cotton Purification industries using ARM 7 TDMI processor based LPC2148 Controller
ARM10	Intelligent LPG / Smoke Detector with Auto dialer using ARM 7 TDMI LPC2148
ARM19	Automatic photovoltaic panel direction control for maximum power tracking using ARM 7 TDMI processor based LPC2148 Controller
ARM20	Auto turn off for water pump with four different time slots using ARM 7 LPC2148
ARM22	Improved structure of solar tracker with arm7tdmi LPC2148
ARM37	Implementation of Solar Fridge with fast chilling Applications with temperature Monitoring using ARM7
ARM28	Applications of MEMS in robotics and Bio-MEMS
ARM30	Hazardous gas detecting method applied in coal mine detection robot
ARM32	Research on the method of automatic obstacle avoidance robot
ARM33	The remote control of mobile robot based on embedded technology
ARM38	Hand Gesture Based Wheel Chair Movement Control For The Disable With MEMS Using PWM Technique
ARM44	Robot Navigation System with RFID and Sensors Using ARM7
ARM45	Design of the Smart Vehicle Control System Based on ARM7
ARM46	Mobile operated Water Robot Using ARM7 Based LPC2148
ARM47	The Design and Implement of Embedded Remote Control System in Industrial Pick and Place Robot Based on ARM7
ARM50	Advanced artificial eye implementation for detecting monochrome objects for industrial automation, object sorting and material

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

	separation applications with DC geared motor fitted conveyer belt arrangement using ARM7 TDMI based LPC2148
ARM52	Multi-Functional Car with Accident Alert Sensor Using ARM7
ARM55	Solar Driven Vehicle With Drunken People Identification With Auto Ignition Disable Function Using ARM7

Projects based on Arduino Controller / ATmega8 / PIC Controller

SNO	Project Title
WYARD1	Implementing character LCD Device Driver development on LPC2148 ARM
WYARD2	Ultrasonic Target Range Estimation using SONAR & Arduino
WYARD2	Ultrasonic Target Range Estimation using SONAR & Arduino
WYARD15	Arduino Based Industrial appliances control system by decoding dual tone multi frequency signals on GSM / CDMA network.
WYARD11	Digital Heart beat Rate monitoring system Using Arduino
WYARD16	Arduino Based PC to Microcontroller Secured Data Communication using Fiber Optic Communication
WYARD17	Implementation of high sensitive GSM signal detector with audio visual alert Indication using Arduino
WYARD33	Monochrome Image Display On GLCD using Arduino
WYARD12	RFID security access control system Using Arduino
WYARD13	RFID based electronic passport system for easy governance Using Arduino
WYARD14	RFID based Airport Luggage security scanning system Using Arduino
WYARD34	IR remote Based Human  computer interface mouse control for PC Using Arduino
WYARD3	Petrochemical Level Indicator and Controller for Automation of cotton purification process in spinning mills Using Arduino

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

WYARD4	Programmable temperature monitor and controller for industrial boilers & Ovens using Arduino
WYARD5	Arduino Based High sensitive LDR based power saver for street light
WYARD6	Arduino Based Automatic Temperature based Fan Speed Controller
WYARD7	Arduino Based DC Motor speed control using PWM Technique
WYARD8	Arduino Based Real Time Clock based industrial automation using
WYARD9	RTC based Digital Clock with 7-segment Display with 12 / 24 hours Using Arduino
WYARD20	Arduino Based Temperature Monitoring and Display on 7-segment
WYARD21	Bluetooth based Wireless Device control for Industrial Automation Using Arduino
WYARD10	Design and implementation of maximum power tracking system by automatic control of solar panel direction according to the sun direction (Model Sunflower) Using Arduino
WYARD28	Implementation of solar water pump control with four different time slots for power saving applications Using Arduino
WYARD29	Next generation alternative energy storage application with super capacitors / ultra-capacitors with voltage analyzer using Arduino
WYARD30	Arduino Based Foot step power generation system for rural energy application to run AC and DC loads
WYARD31	Solar based mobile charger for rural areas (Charge your mobile anywhere with sunlight) with battery voltage analyzer using Arduino
WYARD32	Solar highway lighting system with auto turn off on day time with LCD display using Arduino
WYARD22	SBluetooth based Robot Control for Metal Detection Applications Using Arduino
WYARD25	Arduino Based Hand wheel chair movement control for the disabled using (Micro Electro Mechanical Sensor) MEMS technology
WYARD26	RF Controlled Robotic Boat to Travel in Water with Wireless Video and Voice Using Arduino

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

WYARD27	Arduino Based RF Controlled Fire Fighting Robot with high pressure water sprinkler
WYARD18	Arduino Based Wireless DC Motor Speed & Direction Control using IR (PWM and H-Bridge)
WYARD19	Arduino Based Wireless Electrical Apparatus Control System using IR communication
WYARD23	Digital control for home lighting systems with ZigBee Communication Using Arduino
WYARD24	The temperature humidity monitoring system of soil based on wireless sensor networks Using Arduino
WK601	Data transmission and reception from PIC 16F877A MCU to PC's hyper terminal using RS-232 communication using PIC microcontroller
WK603	Petrochemical level indicator and controller for automation of cotton purification process in spinning mills using PIC microcontroller
WK605	Speed and direction control of DC motor using PIC microcontroller using PWM and H bridge
WK606	Real time clock based industrial automation using dallas RTC and I2C protocol using PIC
WK607	Temperature monitoring using PIC MCU for industrial boilers and ovens
WK608	Stepper motor control using PIC microcontroller for robotic applications
WK609	Embedded rigging free electronic voting system with instant results using PIC microcontroller
WK610	Password based access control system protocol using PIC microcontroller

**HARDWARE PROJECTS FROM S3 TECHNOLOGIES (
EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)**

RFID / Biometrics / Finger Print

SNO	Project Title
WYRF1	Implementing character LCD Device Driver development on LPC2148 ARM
WYRF2	Designing of RFID based Sensor Solution for Packaging Surveillance Applications
WYRF5	Using RFID for anti-theft in a Chinese electrical supply company: A cost-benefit analysis
WYRF6	Fast identification of the missing tags in a large RFID system using AT89S52 MCU
WYRF3	Improving security and usability of low cost RFID tags improving security and usability of low cost RFID tags
WK318	RFID security access control system
WK317	RFID based banking system for secured transaction
WK323	RFID based Airport Luggage security scanning system
WYRF4	Unveiling the Potential of RFID-Enabled Intelligent Patient Management
WYRF9	RFID based patient information system using AT89S52 Microcontroller

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

WYRF8	RFID based prepaid car parking system using AT89S52 Microcontroller
WYRF10	RFID based Electronic road pricing system using AT89S52 Microcontroller
WYRF11	RFID based toll tax system using AT89S52 Microcontroller
WYRF12	RFID based toll tax system using AT89S52 Microcontroller
WYRF13	Construction of Central Control Unit for Irrigation water pumps. Cost effective method to control entire villager's water pumps with user level authentication
WYRF7	RFID based attendance system using AT89S52 Microcontroller
WK319	RFID based electronic passport system for easy governance using AT89S52 Microcontroller
WK322	RFID based Library Automation System using AT89S52
WK314	RFID based Library Automation System using AT89S52
WK315	Finger print based bank locker system using AT89S52 MCU
WK316	Finger print based electronic passport system using AT89S52 MCU
WK329	Finger print based voting system for rigging-free governing
WK330	Finger print based driving license management system
WKFP1	Finger print based attendance system using AT89S52 MCU
WKFP2	Finger print based electrical device control system using AT89S52

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

WKFP3	Prepaid coffee dispenser with biometric recharge using finger print
-------	---

Antennas / RADAR / SONAR / Microwave / Fiber-Optic Communication / Power Line Communication Projects (with Hardware Kit)

SNO	Project Title
WK301	Wireless Data Encryption and Decryption for Secured Communication using RF
WK306	Wireless Electrical Apparatus Control System with Speed Control of AC motor in a plant using RF communication
WK307	Wireless DC Motor Speed and Direction Control using RF Communication
WK309	Wireless Stepper Motor Control using RF Communication
WK310	Wireless Electronic Notice Board with Multi Point Receivers using RF Communication System
WK331	Wireless Temperature Monitoring on Remote Seven-segment Display using RF
WK337	RF based tsunami detection and remote alert system with 60dB siren
WK344	Advanced Low power wireless Electronic Security System with magnetic and pet immune PIR sensor with auto-dialer
WK311	Wireless Stepper Motor Control using IR Communication

**HARDWARE PROJECTS FROM S3 TECHNOLOGIES (
EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)**

WK312	Wireless DC Motor Speed and Direction Control using IR (PWM and H-Bridge)
WK313	Wireless Electrical Apparatus Control System using IR communication
WYT37	Over speed & unauthorized vehicle detection using IR based speed sensors
WYT38	Auto speed control of solar car at specified locations like school zones / hospitals / residential areas
WYT39	Density based automatic traffic control system in metros
WK335	Wireless Stepper Motor Control using IR Communication
WK336	Bluetooth based Robot Control for Metal Detection Applications
ANDR21	Android based multi Terrain Robot to travel on water surface, Indoor and outdoor uneven surfaces for defense applications
WK332	ZigBee based Secured Wireless Data transmission and Reception
WK333	ZigBee based Wireless Electronic Notice Board with Multi Point Receivers
WK334	Two-way Wireless Data Messaging System for Rural Areas using ZigBee Technology
WK338	Streetlight Power Cable Monitoring System Based on Wireless Sensor Networks using ZigBee communication.
WK339	ZigBee based wireless remote weather station monitoring system

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

WK340	Advanced railway track fault detection with remote station messaging system using ZigBee communication
WYT32	Wireless Heartbeat Monitoring System Using ZigBee
WYT33	Digital control for home lighting systems with ZigBee communication
WYT34	The temperature humidity monitoring system of soil based on wireless sensor networks
WK341	Innovative congestion control system for ambulance using Zigbee and AT89S52 Microcontroller
WK342	Patient health monitoring (Blood pressure, heart beat and body temperature) with doctor alert reporting using Zigbee communication
WK343	Design and Implementation of an Assisted Body Movement System for Visually Impaired Children using Zigbee communication and AT89S52 Microcontroller
WK344	Advanced Aircraft anti-collision system using Zigbee communication and AT89S52 Microcontroller

Mobile & Satellite Communication GSM / CDMA / DTMF / GPS / 3G / GPRS

SNO	Project Title
	ATM Security with RFID and One Time Password (OTP) through GSM
WK401	Security Integrated system based on wireless access protocol for industrial applications with SMS alert system using GSM modem
WK413	Design and development of SMS based Car Engine control system to prevent car theft using GSM modem

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

WK418	Power Theft Detection and Intimation Energy Meter Information on through SMS with Auto Power Cutoff
WK403	Design and development of activation and controlling of home automation system via SMS through microcontroller
WK404	SMS based PWM Speed and Direction control of DC motor using H-Bridge and GSM
WK405	SMS based Speed control of thread roller's AC motor in spinning mills using GSM
WK406	Design of an Intelligent SMS based Remote electricity Metering and billing System
WK409	Supervisory control and data acquisition system (SCADA) using GSM modem
WK414	Mobile phone signal jammer for GSM, CDMA and 3G networks with user selectable prescheduled time duration (Mobile Jammer)
WK415	SMS based Wireless electronic notice board using GSM / CDMA / 3G mobile phone
WK418	Power Theft Detection and Intimation Energy Meter Information on through SMS with Auto Power Cutoff
WK411	Power Theft Detection and Intimation Energy Meter Information on through SMS with Auto Power Cutoff
WK412	Automatic Vehicle Accident Detection and Messaging System using GSM and GPS
WYT36	Blind Person Navigation system using GPS & Voice announcement
WK419	Woman security assistance system with GPS tracking and messaging system

Robotics / Solar Robotics / Wireless MEMS Technology Robotics

SNO	Project Title
WKR5	Hand gesture based wheel chair movement control for the disabled using (Micro Electro Mechanical Sensor) MEMS technology
WKR12	Autonomous Guide Cane for blind or visually impaired travelers using

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

	IR
WKR14	Head movement controlled car driving system to assist the physically challenged
WKR16	RF Based farmer friendly Agricultural Robot with motorized shovel control System with automatic seed dispensing system
WKR22	Intelligent speech recognition and voice operated robot with wireless voice & video transmission to remote television
WKR2	RF Controlled Metal Detecting Robot with Remote Voice And Image Transmission to assist bomb detection and rescue team
WKR7	Hand gesture recognition technology based wireless surveillance bomb diffusing robot with mobile jamming technique using MEMS technology
WKR8	RF Controlled Robotic Boat to Travel in Water with Wireless Video And Voice
WKR9	RF Controlled Fire Fighting Robot with high pressure water sprinkler
WK336	Bluetooth based Robot Control for Metal Detection Applications
WKR6	DTMF based human less boat control for ocean research applications
WKR11	Wireless target recognition and counter attacking robot with laser gun activation
WKR18	Pole climbing Robot for surveillance application with voice and image recording in SD card / Memory card
WKR19	Search and rescue robot for victims of earthquake and other natural calamities
WKR20	Light Search and following robot using AT89S52 MCU
WKR21	RF Controlled multi Terrain Robot to travel on water surface, Indoor and outdoor uneven surfaces for defense applications
	RF controlled Bomb detection and diffusing solar robot with wire cutting and gun arrangement
WK221	Implementation of artificial eye for Intelligent Line Following Robot application using AT89S52 MCU
WKR1	Remote GSM Mobile phone controlled Robotic Arm with Base Rotation, Elbow and Wrist Motion with a Functional Gripper

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

WKR3	Robotic Arm With Base Rotation, Elbow And Wrist Motion With A Functional Gripper for pick and place applications
WKR10	LPG Detecting Robot with wireless Voice And Image Transmission
WKR13	Intelligent Wall Follower Robot using AT89S52 MCU
WKR15	Mining safety ♦ implementation of RF controlled Robotic Electronic Nose to detect dangerous gases for alerting mining workers and engineers for preventive actions ♦ (This robotic nose can sense various odors and gases like methane, carbon monoxide, liquid petroleum gas etc - more sensitive than human nose)
WKR17	Automatic Intelligent Industrial Object sorter with conveyor belt arrangement for colour distinguishing and object count applications
WKR28	RF Controlled high efficient trash collecting robot capable of capturing even 40 microns dust particles
WKR23	Swumanoid ♦ Design and development of sailing robot with Pick and place applications

Solar / Wind / Green House / Renewable Energy Sources

NO	Project Title
WKS2	AC motor speed control using power Triac
WKS3	Solar based air compressor pump for car bike tire inflate
WKS4	Solar based high efficient vacuum cleaner capable of capturing even 40 microns small dust
WKS5	Implementation of Solar inverter for home / garden / street light applications
WKS6	Real Time Clock based solar LED street light automation using Dallas RTC and I2C protocol
WKS7	Implementation of solar water pump control with four different time slots for power saving applications
WK234	Design and implementation of maximum power tracking system by automatic control of solar panel direction according to the sun direction (Model Sunflower)

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

WKS10	Solar based E-Uniform for soldiers who work at extreme high temperature or extreme low temperature
WKS14	Farmer friendly Solar based electric fence for rural agriculture with battery voltage analyzer using AT89S52 MCU
WKS15	Solar based mobile charger for rural areas (Charge your mobile anywhere with sunlight) with battery voltage analyzer using AT89S52 MCU
WKS16	Solar highway lighting system with auto turn off on day time with LCD display
WKS18	Implementation of hi-tech agricultural solar fence security with soil humidity based automatic irrigation and Voice Announcement alert on PIR live human detection
WKS8	Aerodynamic wind mill with reverse charge protection for rural power generation applications with battery voltage analyser using AT89S52 MCU
WKS9	Next generation alternative energy storage application with super capacitors / ultra capacitors with voltage analysier using AT89S52 MCU
WKS11	Foot step power generation system for rural energy application to run AC and DC loads
WKS12	Hand cranked dynamo based energy generation system for emergency headlamp applications for mining workers and engineers who work under ground
WKS13	Microhydel power generation system from building roof rain water flow to power AC / DC loads with battery reverse charge protection
WKS17	Non-conventional energy resource system through elevator to power a AC CFL load lamps with micro inverter
WKS20	Pendulum power generation using Earth gravitational force with micro inverter to power up loads up to 40W
WKS19	Design and implementation of miniature thermal plant using TEP transducer for industrial and domestic power generation

AT89S52 Microcontroller Based Projects


**HARDWARE PROJECTS FROM S3 TECHNOLOGIES (
EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)**

SNO	Project Title
WK225	Auto turn off for water pump with four different time slots for power saving applications
WK216	DC Motor speed control using PWM Technique using AT89S52 MCU
WK221	Implementation of artificial eye for Intelligent Line Following Robot application using AT89S52 MCU
WK224	DTMF based Industrial automation and appliances control system for rural and agriculture applications using AT89S52 MCU
WK227	Stepper motor control using AT89S52 for robotic applications
WK234	Design and implementation of maximum power tracking system by automatic control of solar panel direction according to the sun direction (Model Sunflower)
WK247	Ultra Violet Sterilization System with UV Lamp Failure Detection and content Volume Monitoring using Magnet Sensor
WK248	Intelligent car wash system with infrared proximity sensor triggered conveyor belt arrangement using AT89S52 MCU
WK203	Petrochemical Level Indicator and Controller for Automation of cotton purification process in spinning mills using 89S52 MCU
WK207	Programmable temperature monitor and controller for industrial boilers & ovens using AT89S52 MCU
WK208	High sensitive LDR based power saver for street light control system
WK211	Automatic Temperature based Fan Speed Controller
WK217	Real Time Clock based industrial automation using Dallas RTC and I2C protocol using AT89S52 MCU
WK6	Implementation of Path clearing assist stick and obstacles

**HARDWARE PROJECTS FROM S3 TECHNOLOGIES (
EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)**

	detection safety cap for the blind
WK235	Digital Heart beat Rate monitoring system using AT89C51 MCU
WK240	Automatic medicine reminder with RTC interfacing using AT89S52 and 16X2 LCD
WK244	Shock proof electrical appliances control system for physically challenged using AT89S52 MCU
WK245	Advanced patient monitoring system (body temperature & heart beat) on PC using AT89S52 MCU
WK246	Gesture Controlled Speaking Micro Controller for the deaf & dumb
WK251	Next Generation Braille System Implementation: Mobile Communication Device for the Blind
WK252	Breath and Lungs health analyzer with Respiratory analyzer using AT89S52 MCU
WK212	Embedded Automatic Car Parking System using AT89C51 MCU
WK215	Embedded automatic two gate interlock for toll tax system using AT89S52 MCU
WK238	Loco-pilot operated voice based station announcement system for alerting passengers in the train
WK241	Automatic speed control of vehicle at school zones using IR sensor using AT89S52 MCU
WK242	Vehicle over speed detection with audio buzzer alert system on highways using AT89S52 MCU
WK243	Density based traffic light system with auto traffic signal transition for VIP vehicles / ambulance
WK213	High sensitive IR based Unmanned Railway Gate Control
WK204	Super sensitive Industrial Security System with Auto dialer & 60dB loud siren using AT89S52 MCU

**HARDWARE PROJECTS FROM S3 TECHNOLOGIES (
EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)**

WK210	Embedded Password based Access Control System using I2C
WK205	Coin operated fortune telling system with dancing LED effect using AT89S52 MCU
WK206	Embedded Quiz monitoring system with team performance evaluation using AT89S52 MCU
WK209	Embedded Rigging free Electronic Voting System with instant results
WK219	Electronic Notice Board with LED Dot Matrix Display and PS2 key board interfacing for user friendly message entry
WK220	Automatic School Bell with user defined time schedule using I2C protocol using AT89S52 MCU
WK223	Digital Code converters BCD to Grey / Excess-3 / 7-segment
WK226	Embedded concentration tester  Touch Me Not using AT89S52
WK228	Automatic Dam Gate Control System with Caution Alarm
WK230	Electronic Private Automatic Branch Exchange System with call forward and call pick up
WK232	RTC based Digital Clock with Seven-segment Display with 12 / 24 hours mode using AT89S52 MCU
WK233	Gold and Silver Rate Display System with EEPROM Data Backup System using AT89S52 MCU
WK229	Automatic Active Phase selector for single phase load from three phase supply
WK236	Intelligent automatic podium light control system using AT89C51 MCU
WK239	Automatic plant irrigation system with dry / wet soil sense and controlling 230V water pump for agricultural applications using AT89S52 MCU
WK250	Distance Calculation for underground cable faults

HARDWARE PROJECTS FROM S3 TECHNOLOGIES (EMBEDDED/MICROCONTROLLERS/MICROPROCESSOR ETC.,)

WK214	Automatic Room Light control with Visitor Counting for power saving applications
WK218	Jogger bench using PWM Technique and H-Bridge with person fall detection & prevention
WK222	Jogger bench using PWM Technique and H-Bridge with person fall detection & prevention
WK501	PC based Appliances control in a plant using PC's parallel port (C-Language)
WK502	Communicating to 89S52 MCU through windows hyper terminal using RS-232
WK503	PC Based stepper motor control for robotic applications
WK504	PC Based DC Motor speed and direction control using PWM and H-Bridge
WK505	PC Based Hi-Tech industrial automation with auto / manual modes of operation
WKC9	PC to Microcontroller Secured Data Communication using Fiber Optic cable