



P.S.R. ENGINEERING COLLEGE

(Autonomous Institution, Affiliated to Anna University, Chennai)

(Accredited By NAAC, NBA & Recognized Under 12(B) Of The UGC Act, 1956)

Sivakasi - 626 140, Virudhunagar(Dt.), Tamil Nadu.



EEE News Letter

December 2019

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Department of Electrical and Electronics Engineering

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STAFF ACTIVITIES**ACHIEVEMENTS:**

- **Dr. S.Anbarasi** got **Course topper** certificate and **Elite with Silver** certificate in NPTEL online course titled “Body Language a key to Professional Success”.

JOURNALS:

1. **R.Madavan** and S.Saroja, “Decision Making on State of Transformers based on Insulation Condition using AHP and TOPSIS methods”, IET Science, Measurement and Technology, DOI: 10.1049/iet-smt.2018.5337, 2019 (Impact Factor: 1.895).
2. **S.Anbarasi**, S.Ramesh and S.Muralidharan, “An Optimal Tuning Of Integral Controller For Hybrid LFC System Integrated With Wind Energy Resources”, Recent Advances In Electrical Electronics Computer And Communication Engineering, 2019.
3. S.Saroja, T.Revathi and **R.Madavan**, “Multi-objective League Championship Algorithm for Real-Time Task Scheduling”, Neural Computing and Applications, doi.org/10.1007/s00521-018-3950-y, 2019. (Impact factor – 4.213)
4. **R.Aruna** and S.T.Jaya Christa, “Modeling, System Identification and Fuzzy-PID Controller design for discharge dynamics of Metal Hydride Hydrogen storage bed”, International Journal of Hydrogen Energy, Volume 45 issue 7 (2020) pp. 4703-4719 2019.
5. **S.Krishnaveni** and **M.Yamuna**, “Real and Reactive Power Management in Distribution System for Unbalanced Conditions”, Journal of Emerging Technologies and Innovative Research, vol.6, Issue 2 ISSN: 2349-5162, 2019
6. **S.Sivakumar**, “Design and Implementation of DC to DC Converter for PV Application”, Journal of Emerging Technologies and Innovative Research, vol.6, Issue 2 ISSN: 2349-5162, 2019
7. **M.Yamuna** and **S.Krishnaveni**, “Enhancement of Power Quality in Distribution System Using D-STATCOM”, Journal of Emerging Technologies and Innovative Research, vol.6, Issue 2 ISSN: 2349-5162, 2019
8. **V.DhivyaRubini** and **B.Mangaiyarkkarasi**, “IOT Based Energy Meter Monitoring and Control System”, Journal of Emerging Technologies and Innovative Research, vol.6, Issue 2 ISSN: 2349-5162, 2019
9. **B.Mangaiyarkkarasi** and **V.DhivyaRubini**, “Smart Wheelchair Controlled by Manual and Voice Control Using Arduino”, Journal of Emerging Technologies and Innovative Research, vol.6, Issue 2 ISSN: 2349-5162, 2019
10. **T.Balasubramanian** and **S.Sivaraman**, “Performance Improvement of Induction Motor Using Multilevel Inverter”, Journal of Emerging Technologies and Innovative Research, vol.6, Issue 2 ISSN: 2349-5162, 2019

11. **S.Edwin Jose** and **S.Ramaraj**, “CAT Swarm Optimization Based Solid State Fault Current Limiter in Distribution System”, Journal of Emerging Technologies and Innovative Research, vol.6, Issue 2 ISSN: 2349-5162, 2019
12. **S.Anbarasi** and S.Muralidharan, “Analyzing the Performance of Solar Photovoltaic Integrated UFC”, Journal of Emerging Technologies and Innovative Research, vol.6, Issue 2 ISSN: 2349-5162, 2019
13. **R.Aruna** and S.T.Jeya Christa “Modeling and Simulation of fuel cell based power system”, Journal of Emerging Technologies and Innovative Research, vol.6, Issue 2 ISSN: 2349-5162, 2019
14. **K. Punitha** and V,Anbulakshmi, “LMMN Based Adaptivecontrol method and ANN based MPPT method for grid tied Wind-PV system”, International Journal of Electronics and Instrumentation Engineering IJAREEIE, vol. 8, Issue 11, November 2019.

WORKSHOP/FDP/SEMINAR:

S.No	Name of The Faculty	Type of Program Attended	Title of the Program	College & Date(S)
1.	P.Sarath Chandran	QIP Short time course	Power Electronic Converters: Operation and Control	Indian Institute of Science, Bangalore, from 2 nd to 6 th December 2019
2.	V.DhivyaRubini	Faculty Development Program	Texas Instruments Sponsored Robotics with IoT	PSR Engineering College from 27 th to 29 th November, 2019
3.	K.Ajitha	Faculty Development Program	Texas Instruments Sponsored Robotics with IoT	PSR Engineering College from 27 th to 29 th November, 2019
4.	R.Madavan	Faculty Development Program	AICTE Sponsored Deep Learning and Machine Learning	Mepco Schlenk Engineering College, from 11 to 22 November 2019
5.	S.Krishnaveni	Faculty Development Program	AICTE Sponsored Deep Learning and Machine Learning	Mepco Schlenk Engineering College, from 11 to 22 November 2019
6.	M.Yamuna	Faculty Development Program	AICTE Sponsored Deep Learning and Machine Learning	Mepco Schlenk Engineering College, from 11 to 22 November 2019
7.	S.Anbarasi	Tutorial Course	AICTE Sponsored International Conference on	Mepco Schlenk Engineering College, at

			Recent Advances in Electrical, Electronics, Computer and Communication	5 th November 2019
8.	R.Madavan	Workshop	E-Learning and MOOCs in Higher Education	Anna University Chennai on 14 th September 2019
9.	R.Aruna	Workshop	Power Quality Application Note for HT Industries	Thiagarajar College of Engineering, Madurai on 28 th September 2019
10.	M.Sivaraman	Faculty development Program	Instructional design and delivery system	National institute of technical teachers training and research, August 2019
11.	K.Ajitha	Faculty development Program	Instructional design and delivery system	National institute of technical teachers training and research, August, 2019
12.	M.Yamuna	Seminar	Integrated Smart energy Management System for Smart Meters, sensors and Business	Hindustan Institute of Technology, July 2019
13.	S.Anbarasi	Faculty development Program	Body Language a key to Professional Success	NPTEL Online Course
14.	K.Punitha	Faculty development Program	Smart Grid	NPTEL Online Course
15.	K.Punitha	Faculty development Program	Introduction to Internet of Things	NPTEL Online Course

NPTEL ONLINE COURSE:

Sl.No	Name of the staff	Title of the course	Duration	Certified
1.	S.Anbarasi	Body Language a key to Professional Success	July – September 2019 (8 week course)	Course topper - Elite Silver
2.	K.Punitha	Smart Grid	July – September 2019 (8 week course)	Elite
3.	K.Punitha	Introduction to Internet of Things	July – October 2019 (12 week course)	Elite Silver

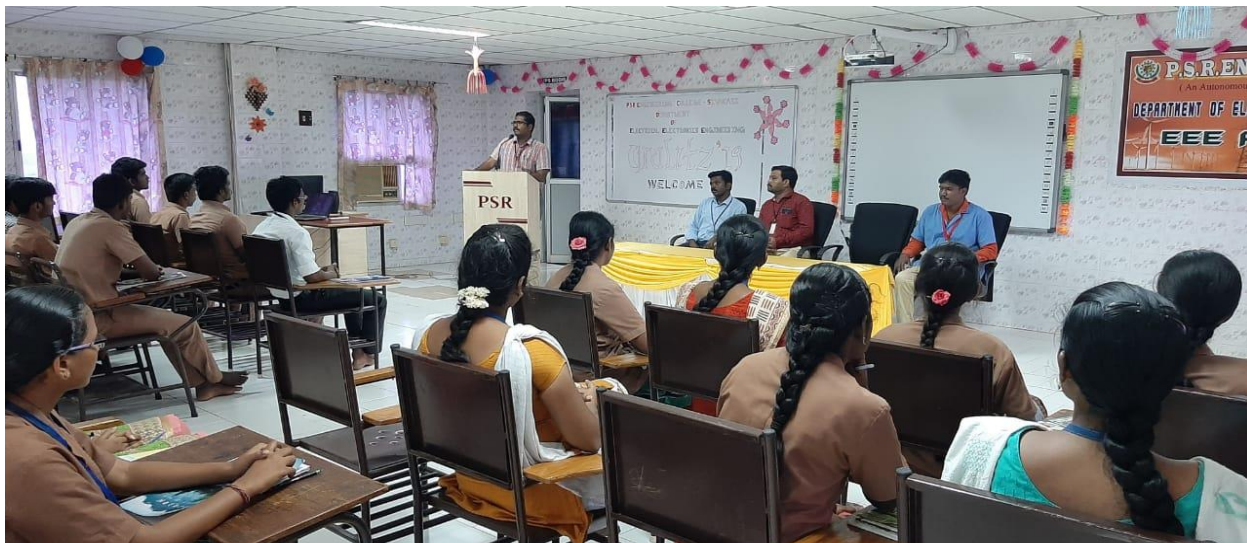
DEPARTMENT ACTIVITIES

EVENTS

1. One-week Value added course on “Modern Protection Schemes of Power System Equipments” by Mr.A.Prabhu, AGM-Training, Voltech Group, Chennai, from 01.10.2019 to 05.10.2019 for III Year EEE



2. One-week workshop on “E-CAD” by organized Hi-Tech from 01.10.2019 to 06.10.2019 for IV Year EEE



3. One day National level technical symposium “GRALITZ-2K19” organized by Department of EEE on 20.09.2019.



STUDENT ACTIVITIES

STUDENT ACHIEVEMENTS

- P.Sathish Kumar of Third Year EEE student got First Prize in District level in Silambattam competition organized by Virudhunagar District Silambattam Association on 08.09.2019.
- Muralitharan M, Karuppasamy R, Vijayavenkatesh G of second year EEE won Third Prize in Hackathon'19 organized by PSR Alumni Association on 14.12.2019



INDUSTRIAL VISIT

- Second and Third year EEE students went for Industrial Visit to Radio Astronomy Center, Ooty, on 26.07.2019.

INPLANT TRAINING:

Name of the Student	Date of the Event	Place
Gandhi R Gowthamraj R Rajesh Kumar P Rajesh M Vijaya Kumar M	02.12.2019 to 06.12.2019	Gas Power Plant,Ramanathapuram
Amirtharaj T Aravinth S Baskar K Ganeshmoorthi A Harihara Lingam J Jeyaprakash J John Sivekar S Karthick G Karthick K Mathavan P Muthumareeswaran G Ruban G Sathish Kumar P Sivasankaran R Sivasankaran S Sureshanandh M Ajay J Gobikrishnan I S	02.12.2019 to 06.12.2019	Thoothukudi Thermal Power Station, Thoothukudi
K.Abinaya G.Dhivya M.Jeniper M.Gokulapriya N.Kanimozhi N.Thangapriya P.Yamunasri	26.11.2019 to 30.11.2019	Eminent Technology Solutions, K.K.Nagar, Madurai.
Anandh A Balakumaran V Sundar S Vigneshwaran R Vishnukumar S	25.11.2019 to 30.11.2019	Gas Power Plant,Ramanathapuram

Deepanchellathurai J Gobinathan V Karpagasaravanakumar K Karthik V Karthikeyan G Kumaravel V MuthuKomu G Ramakrishnan A Satheshkumar R	25.11.2019 to 30.11.2019	Southern Railway, Madurai
Jeyaananth S Karthikeyan T Prakash V Saravanakumar E Aswinkumar S Gowtham K Ponrajapandian A Rakesh S S	25.11.2019 to 02.12.2019	Keltron, Kerela
A.AnanadhaRamkumar M.Rabin	17.06.2019 to 21.06. 2019	Southern Petrochemical Industries Corporation limited, SPIC Nagar, Tuticorin
N.Thangapriya K.Abinaya P.Yamunasri N.Gokulapriya	17.06.2019 to 21.06. 2019	230 kV SS, Anuppankulam
M.Jeniper G.Dhivya N.Kanimozhi	17.06.2019 to 21.06.2019	110 kV SS/Anuppankulam

INTERNSHIPS:

Name of the student	Date of the event	Institute
R.Krishnakumar	16.12.2019	Ramco Cements
U Velprakash V M Rishikanth S Dhamodharakannan S Kartheeswaran R Mathanraja Periyasamy B A Ram Kumar R Ravi Kumar	16.12.2019	Sofia Infology

A Subbaraj S Suryakumar C Muthukumar G Moorthi	09.12.2019	Phoenix Softech
M.DharmaPrabu V.G.Divagar L.Maris raj M.Mukhilvannan S.Senthil Kumar R.Suresh M.Vigneshwaran	06.12.2019	Phoenix Softech
T Mohamed Riyasudeen	19.11.2019	Techvolt Software Pvt Ltd
M.Vijayakumar	01.10.2019 To 05.10.2019	Voltech Engineers Private Ltd, Chennai

WORKSHOPS ATTENDED:

Name of the student	Date of the event	Title of the event	Institute
S.Sudalaimani K.Yogeshwaran R.premkumar P.Sugan	18.09.2019 To 19.09.2019	Workshop on Challenges and opportunities of virtual reality and augmented reality integrated with AI	Hindustan Institute of Technology, Coimbatore
B.Manojvel S.Sanjay S.Ramalingam M.Vishal V.Saravanabhavan	06.09.2019 To 07.09.2019	Lab view for Real Time Applications	Ramco Institute of Technology, Rajapalayam
R.Saravanakumar B.Saravanakumar M.Dineshkumar M.Dineshkarana J.Praveenkumar K.Poominathan	06.09.2019 To 07.09.2019	Hands-on Training using Raspberry pi	SCAD Institute of Technology, Chennai
N.Kanimozhi	31.08.2019	Arduino Programming and Hardware	Ramco Institute of Technology, Rajapalayam

R.Karuppasamy S.Mathan C.Sankardhinesh J.Akash	30.08.2019 To 31.08.2019	Seminar on Smart Grid and Smart Cities	Vel's Tech Engineering College, Chennai
G.Muthukomu J.Deepanchelladurai A.Sabarisankaran	29.08.2019 To 30.08.2019	Seminar on Smart Grid and Smart Cities	Vel's Tech Engineering College, Chennai
G.Vijayavenkatesh	04.08.2019	IOT Hackathon	Anna Mahal Broadway,Chennai

NPTEL ONLINE COURSES:

Name of the student	Duration of the course	Title of the course
S.Manojkumar G.Vijay M.Thagaduari S.Eswaran M.Mariselvakumar S.Krishnasamy S.Kartheeswaran G.Narendran	12-week Course Jun-Nov 2019	Basic Electric Circuit

SOCIAL AWARENESS ACTIVITY

The Department of Electrical and Electronics Engineering of PSR Engineering College, Sivakasi has organized a social awareness program on “Electrical Energy Conservation and Electrical safety” for the students of Government high school, Alamanaickerpatti. Our faculty, Dr.S.Anbarasi presents the welcome address and explains the necessity of conducting this program. The head of the department Dr. R. Madavan gives a detailed power point as well as video presentation regarding the energy generation by traditional and renewable energy resources. He also explains the shortage of fossil fuel availability and the energy conservation techniques to overcome the scarcities.

The session is then carried out by our faculty Dr. S. Edwin Jose. He discusses about the electrical safety precautions to be followed to avoid accidents. A demo was also given with our students regarding the first aid for electric shock. Our students Mr.J.Deepan Chelladurai and Mr.G.Muthukomu of third EEE explain the precautions to be taken to avoid electrical shock in various environmental conditions with an attractive video presentation.

This program was successfully coordinated by Dr.R.Madavan HOD/EEE and Dr.S.Anbarasi Associate professor/EEE for the benefit of society for creating the awareness on electrical energy conservation and the electrical safety.



Social awareness program- Electrical Energy Conservation and Electrical Safety

PLACEMENT DETAILS

Sl. No	Roll Number	Name of the Student	Company Name	Company Type
1.	16EE027	Maheswari K	TCS Pvt Ltd, Chennai	Software
1.	16EE052	Thangadurai M	TCS Pvt Ltd, Chennai Tech Volt Pvt Ltd, Coimbatore	Software, Software
2.	16EE001	Alagumuthu T	Worksbot Applications, Chennai	Networking
3.	16EE013	Gomathysankar E	Worksbot Applications, Chennai	Networking
4.	16EE014	Gurunathan S	Worksbot Applications, Chennai	Networking
5.	16EE016	Kaliraj S	Worksbot Applications, Chennai	Networking
6.	16EE019	Karuppasamy B	Worksbot Applications, Chennai	Networking
7.	16EE021	Krishnakumar R	Tech Volt Pvt Ltd, Coimbatore	Software
8.	16EE022	Krishnasamy S	Worksbot Applications, Chennai	Networking
9.	16EE025	Lenin N	Worksbot Applications, Chennai	Networking
10.	16EE029	Manojkumar S	Worksbot Applications, Chennai	Networking
11.	16EE034	Mohamed Riyasudeen T	TechVoltPvt Ltd, Coimbatore	Software
12.	16EE038	Muppithathi S	Tech Volt Pvt Ltd, Coimbatore. Infiniti Software Solutions, Chennai	Software, Software
13.	16EE041	Nivetha T K	Tech Volt Pvt Ltd, Coimbatore	Software
14.	16EE043	Praveen Kumar S	Uniq Tech, Worksbot Applications, Chennai	Networking, Networking
15.	16EE044	Ramar S	Worksbot Applications, Chennai	Networking
16.	16EE055	Vigneshwaran M	Tech Volt Pvt Ltd, Coimbatore	Software
17.	17LEE04	Gokul Krishna N	Worksbot Applications, Chennai	Networking

TCS	02
Worksbot	11
TechVolt	06
Uniq Tech	01
Infiniti Software Solutions	01
Total	21

ALUMNI PORTAL

KNOW YOUR ALUMNI

GURU VENKATESH J

Alumni: 2011

Department of Electrical and Electronics Engineering.

PSR Engineering College.



EXPERIENCE SUMMARY

- Working as an “Senior Engineer” in Sri Gopikrishna Infrastructure Pvt Ltd- Hyderabad from Apr 2018
- Worked as an “Assistant Planning Engineer” in L&T Construction-KSEB-RAPDRP Project – Calicut from Oct 2014 to Mar 2018
- Worked as an “Testing and Commissioning Engineer” in L&T Construction- 2X1000 MW Kudankulam Nuclear Power Project form May 2011 to Aug 2012

EDUCATION

- Completed M.E- Power Systems in Arulmigu Meenakshi Amman College of Engineering, Kanchipuram in the year 2015
- Completed B.E- Electrical and Electronics Engineering in PSR Engineering College, Sivakasi in the year 2011

PROJECT DETAILS

- 2X1000 MW Kudankulam Nuclear Power Project- NPCIL Client
- RAPDRP Project- Calicut City- KSEB Client
- Electrical Works-Kannur International Airport(Near Mattannur)- KIAL-Client
- 400/220 KV Arikode Sub Station. PGCIL-Client
- IPDS Project- 3 Nos of Town- JBVNL-Client

ALUMNI ACTIVITIES



Alumni meet at Vijay park inn hotel Chennai on 15.09.2019



Unnamed Road, Appayanaickenpatti, Tamil Nadu 626127, India



Type	Degree	DMS
Latitude	9.3000694	9°18'0" N
Longitude	77.6881485	77°41'17" E

14 Dec 2019, 14:42 PM

S.M. Vignesh of 2015 and K.B. Seenivasan of 2016 delivered a talk titled "Digital Modernization" on 14.12.2019 at EEE Seminar Hall.



Alumni Meet on 14.12.2019 at P.S.R. Engineering College

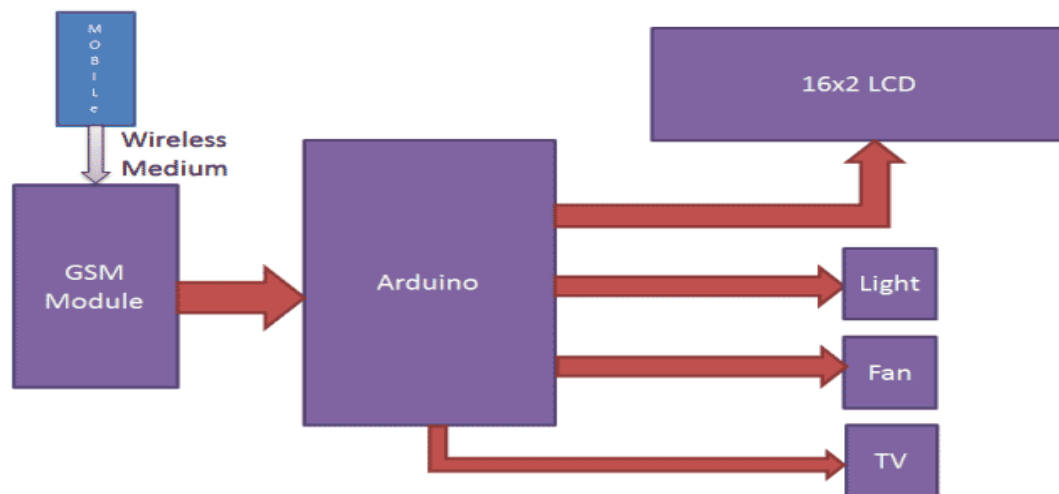
STUDENT ARTICLES

GSM Based Home Automation Using Arduino

Mobile phone is a revolutionary invention of the century. It was primarily designed for making and receiving calls & text messages, but it has become the whole world after the Smart phone comes into the picture. In this project we are building a home automation system, where one can control the home appliances, using the simple GSM based phone, just by sending SMS through his phone. In this project, no Smart phone is needed; just the old GSM phone will work to switch ON and OFF any home electronic appliances, from anywhere.

Working Explanation

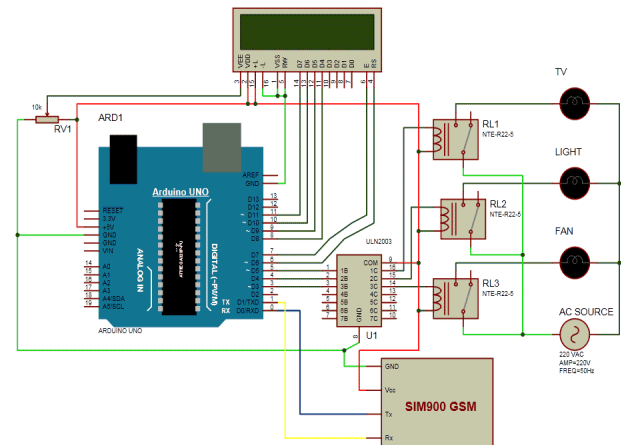
In this project, Arduino is used for controlling whole the process. Here we have used GSM wireless communication for controlling home appliances. We send some commands like “#A.light on*”, “#A.light off*” and so on for controlling AC home appliances. After receiving given commands by Arduino through GSM, Arduino send signal to relays, to switch ON or OFF the home appliances using a relay driver.



Here we have used a prefix in command string that is “#A.”. This prefix is used to identify that the main command is coming next to it and * at the end of string indicates that message has been ended. When we send SMS to GSM module by Mobile, then GSM receives that SMS and sends it to Arduino. Now Arduino reads this SMS and extract main command from the received string and stores in a variable. After this, Arduino compare this string with predefined string. If match occurred then Arduino sends signal to relay via relay driver for turning ON and OFF the home appliances. And relative result also prints on 16x2 LCD by using appropriate commands.

Here in this project we have used 3 zero watt bulb for demonstration which indicates Fan, Light and TV. Below is the list of messages which we send via SMS, to turn On and Off the Fan, Light and TV:

S.no.	Message	Operation
1	#A.fan on*	Fan ON
2	#A.fan off*	Fan OFF
3	#A.light on*	Light ON
4	#A.light off*	Light OFF
5	#A.tv on*	TV ON
6	#A.tv off*	TV Off
7	#A.all on*	All ON
8	#A.all off*	All OFF



Circuit Description

Connections of this GSM based home automation circuit are quite simple, here a liquid crystal display is used for displaying status of home appliances which is directly connected to arduino in 4-bit mode. Data pins of LCD namely RS, EN, D4, D5, D6, D7 are connected to arduino digital pin number 6, 7, 8, 9, 10, 11. And Rx and Tx pin of GSM module is directly connected at Tx and Rx pin of Arduino respectively. And GSM module is powered by using a 12 volt adaptor. 5 volt SPDT 3 relays are used for controlling LIGHT, FAN and TV. And relays are connected to arduino pin number 3, 4 and 5 through relay driver ULN2003 for controlling LIGHT, FAN and TV respectively.

Advantages:

- i. With this process we can increase the security of our home.
- ii. And you can control it from anywhere in India.
- iii. To control this, a special application has been created.
- iv. This is 100% safe, while no one else can control it.
- v. This is Usher Friendly.
- vi. This technology also can be implemented in industries.

By
Vijayavenkatesh G,
II-EEE

EV Charging Standards and Infrastructure

AC vs. DC EV Chargers: Residential and Public Applications

Electric vehicles require a source of AC or DC power to recharge their batteries, which is commonly supplied from the power grid. Residential charging is usually performed at either 120V or 12A (1.5kW) or 240V and 20-50A (5kW to 12kW). Electric vehicles are usually supplied with an AC EVSE, or electric vehicle supply equipment, that will have a vehicle plug on one end and a residential wall plug on the other. Hard-wired AC chargers are also available for residential installation but are more commonly found at workplaces or in public parking areas. DC fast chargers, on the other hand, can often be found at dedicated EV charging plazas, such as Tesla's Superchargers, and often supply 50kW to 400kW or more.



A Tesla Supercharger

Charging power at a DC fast charger will often be limited by what the vehicle's battery is able to accept rather than the supply side. Due to the complexity of the equipment and the amount of power needed, DC fast chargers are rarely if ever found in residential or workplace parking areas.

On-Board Vehicle Chargers:

The vehicle's on-board charger handles all AC charging and will also handle DC charging if voltage conversion is needed (for example when charging an 800V car from a 400V charger). It will work in conjunction with the battery management system to rectify and boost the supply voltage to the necessary voltage for the battery, perform constant-current and constant-voltage charging, and stop charging if any fault conditions are detected in the battery or supply equipment. The on-board charger will also offer some scheduling system which allows the driver to plug in but defer charging until a specific time. This is useful when electricity rates vary throughout the day, to allow charging to occur mostly or entirely when rates are lowest (often late at night and in the morning).

Charging Station Infrastructure:

Charging networks are the electric vehicle's equivalent of gas stations and are what enable owners of electric vehicles to travel large distances beyond what they can cover on a single charge. Charging standards allow most vehicles to charge at most public chargers. Tesla currently uses proprietary charging connectors and protocols to prevent others from using their public chargers, although this has the possibility to change at some point in the future since an adapter could easily be created by Tesla to allow other vehicles to charge. Charging is fastest between 20% and 80% state of charge, so recharging times are often quoted in terms of this. Altitude changes and weather are often taken into account, as well as ambient temperature and the use of the heating and air conditioning. All of these factors will have a significant impact on the total range of the vehicle.

The only downside of this system is the need to keep the relevant databases updated and to ensure that all major charging networks are included. In North America, some of the most extensive charging networks are operated by Charge Point, Blink. Each requires the driver to carry an RFID membership card, which unlocks the charging station and allows the charger to bill the driver for energy and/or time used at the station. Since demand for EV chargers has outpaced the growth in charging infrastructure, most public stations also charge a penalty fee if the vehicle remains plugged in after completing a charge to encourage drivers to move their vehicle to allow another EV to use the station.

Residential Charging: V2G Technologies

Residential charging offers unique challenges and opportunities to utility providers. EV charging mostly occurs at home and puts a large, constant draw on the power grid for many hours. To help encourage EV owners to charge in the lowest-demand times, utilities commonly offer a steep discount on power during the off-peak hours (often from 11pm to 9am), in exchange for a higher rate during the peak times, usually the mid-afternoon.

However, an enticing prospect for the next generation power grid is called "vehicle-to-grid" or V2G. A V2G setup acts as a buffer for energy in the grid, storing it during off-peak hours and returning it to the grid during peak times. This allows EV owners to leave their vehicles plugged in when not in use and reduce their energy bills.

V2G technologies are currently being developed using powerline communication protocols and bi-directional chargers in next-generation EVs. Currently, long-range travel in an EV does require some careful planning and longer stops than would normally be taken by a gasoline-powered car to refuel. Battery technology, however, is constantly progressing and each generation of new EVs can charge faster than the ones before. It's only a matter of time before 'filling up' an EV is just as fast as fuelling with gas.

By

Manikandan S,

IV-EEE



By
Asha K
IV-EEE

PRESS RELEASE

Press: DailythanthiDate: 21.09.2019

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