

## **RESUME**



**R.VIJAYAKUMAR B.E., M.E., (P.hD)**

**365, Alakepalayam, Kuppanur (po), Annur (Via), 641653**

**[reachatvijayakumar@gmail.com](mailto:reachatvijayakumar@gmail.com)**

**9787175667**

### **CAREER OBJECTIVES:**

To work in a firm with a professional work driven environment where I can utilize and apply my knowledge, skills which would enable me as a fresh graduate to grow while achieving organizational goals.

### **ACADEMIC ACTIVITY:**

<b>QUALIFICATION</b>	<b>COLLEGE/SCHOOL</b>	<b>UNIVERSITY/ BOARD</b>	<b>PERCENTAGE/ CGPA</b>	<b>YEAR OF PASSING</b>
<b>(Ph. D)</b>	<b>Anna University, Chennai</b>	Anna University, Chennai	Course work Completed	-
<b>M.E.</b>	<b>SNS College Of Technology, Power Systems Engineering</b>	Anna University, Chennai	7.4	2013
<b>B.E</b>	<b>Anna University of Technology, Tiruchirappalli. (Electrical &amp; Electronics Engineering)</b>	Anna University, Trichy	74.51 %	2011
<b>Diploma</b>	<b>NanjaiLingammal Polytechnic College, Mettupalayam. Diploma in Electrical &amp; Electronics Engineering</b>	DOT	94.25 %	2005
<b>SSLC</b>	<b>Government High school, Anaiyur.</b>	State Board	80 %	2003

## **WORK EXPERIENCE:**

- Assistant Professor cum Industrial Collaboration Coordinator for EEE Department (8 Years)
- Active Center for Creativity Member in SNSCT (3 Years) (Industry Collaboration Team)

## **PATENT FILED**

- No. of Patent Filed : 09
- No. of Patent Published : 05

S. No	Title	Application ID	Status	Details	Contribution
1.	Development of Test RIG for Automated Driving Test Track and Issuing License using LABVIEW	201741030618	Published	The innovation is to monitor, analyze, record and report the driving skills of a person when applying for driving license test. This method is completely automated there is no need for manual intervention.	Patent Drafting and Claim Written. The Hardware Model was developed and implemented to Indian Army (Bangalore)
2.	Panel for Smart Direct Online Starter	297130	Waiting	The invention relate to a design for smart DOL starter with user friendly data display	Patent Drafting and Claim Written
3.	Antibiotic Herbal Toothpick	297131	Waiting	The invention relate to a design for Herbal Antibiotic Toothpick for Tooth Infection	Patent Drafting and Claim Written
4.	Kitchen Waste Disposal Unit	297133	Waiting	The invention relate to a design for kitchen waste disposal unit to convert kitchen waste into manure	Patent Drafting and Claim Written
5.	Method and system for automatically muting headphones when unused	311573	Waiting	The invention relate to a electrical circuit and small mechanical arrangement for automatic muting our headphones while removing from our ears.	Patent Drafting and Claim Written
6.	Development of AC Controller Smart watch for ICU Patients	201841041074	Published	The innovation is to control the Temperature of ICU Room based on the Patient health condition. Successful surgery depends on optimizing working conditions for medical professionals and patients	Patent Drafting and Claim Written. The Simulation model was completed.

7.	Development of Portable and Inbuilt system for Brightness control in Televisions	201841041073	Published	The innovation is to control the brightness level of television by standard 2D cameras or simple PIR sensors for avoiding children's sitting near the Television to watch. This method is completely automated there is no need for manual intervention	Patent Drafting and Claim Written. The Simulation model was completed.
8.	Development of portable semi-automatic coconut flesh scraper	201941000936	Published	The innovation is to grate and expel the coconut substance from the inside of a coconut shell and has a rotatable shaft & moving blade arrangement for coconut. This method is semi automated with no need for manual intervention.	Patent Drafting and Claim Written. The Simulation model was completed.
9.	IOT based solar powered Self lawn bot for grass cutting system	201941000937	Published	The present invention relates to lawn bots and lawn bot moving accessories. More particularly, the present invention relates to an automated solar powered lawn cutting and vacuum system having an automated lawn bot and a mower home base enclosure in which the lawnmower is kept when not in use for re-charging of the mower and in which grass clippings are removed from the mover.	Patent Drafting and Claim Written. The Simulation model was completed.

### **CONSULTANCY WORK**

- No. of Consultancy Work Completed: **07**
- No. of Consultancy Work Inprogress : **03**

S.No	Name of the Industry	Consultancy Work	Status	Contact Person	Contribution
1.	Delving Research and Development	Smart Meter	Completed	Dr.Chithra	Simulation model and proof of concept was completed. Got Proposal from Government Agency

2.	Qubetronics	Super capacitor based Rechargeable LED	Ongoing	Mr.T.Karthik	Simulation model work is going on.
3.	MM Kitchens	Electronic soft Lighter	Completed	Mr.L.Mahendren	Product was developed and product under testing
4.	MM Kitchens	Hot water Level indicator	Completed	Mr.L.Mahendren	Product was developed and product under testing
5.	Bindhu Pumps	IoT based Pump Test Rig for Industry	Ongoing	Mr.Nadarajan	Simulation work and proof of concept developed. PCB design process under progress
6.	Karthikeya Enterprises	Ethernet based Home appliances control	Completed	Mr.Thilak	Product was developed and submitted to industry
7.	Karthikeya Enterprises	Ethernet based Home appliances control	Completed	Mr.Thilak	Product was developed and submitted to industry
8.	Karthikeya Enterprises	WiFi ESP8266 based Home appliances control	Completed	Mr.Thilak	Product was developed and submitted to industry
9.	Karthikeya Enterprises	Smart Home control using Hybrid technology	Completed	Mr.Thilak	Product was developed and submitted to industry
10.	Kondaas Power Solutions	IoT based data monitoring system from remote inverters	Ongoing	Mr.Sam	Site visit under progress

## **PRODUCT DEVELOPMENT**

### **Industrial:**

- ❖ IoT based Pump Test Rig for Industry
- ❖ Automatic Retrofit model for commercial water heater
- ❖ Retrofit GSM kit for Star-delta Starter
- ❖ Automatic Vehicle Service Remainder for service company
- ❖ Distribution Transformer Data Monitoring

### **Commercial:**

- ❖ Automated Lighter for gas operated shawarma making machine
- ❖ Automated Water Heater for Food dispenser Table

- ❖ Automatic Plastic storage with rewards dispenser
- ❖ Hybrid Algorithm for Smart Home Automation
- ❖ Ethernet based Home Automation
- ❖ WiFi ESP8266 based Home Automation
- ❖ Astrological Timer for Street Lights
- ❖ Finger print based Vehicle Ignition system
- ❖ Automatic DC Motor Load Test Kit

### **TECHNOLOGIES KNOWN**

- ✓ IoT  
(By using Arduino, Texas Instruments, Node MCU)
- ✓ PCB Designing  
(Proteus, Dip trace (EAGLE, KiCad EDA, Altium Designer (Basic Level)))
- ✓ Automation in Agriculture  
(By using Microcontroller)
- ✓ Arduino IDE
- ✓ Texas Energia
- ✓ Microcontroller
- ✓ KEIL
- ✓ Proteus  
(Simulation and PCB Layout)
- ✓ MATLAB
- ✓ E-TAP

### **PUBLICATION DETAILS**

▪ International Conference paper Presented	:	<b>10</b>
▪ International Journal Paper Published	:	<b>12</b>
▪ Scopus and Annexure 1 Paper Published	:	<b>03</b>

### **OTHERS**

- Patent Drafting for design and Product
- Trademark
- Hardware Servicing and Mobile phone, Laptop Servicing

### **DECLARATION**

Hereby I declare that the above furnished information is true to best of my knowledge.

Place : Coimbatore

Date :

Yours faithfully,  
(R.VIJAYAKUMAR)