



Anand Nagar, Krishnankoil - 626126, Srivilliputtur (via), Virudhunagar District, Tamilnadu.

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:07-12-2020

Department	ELECTRICAL AND ELECTRONICS ENGINEERING	Application No.	202020060
Area of Research	POWER ELECTRONICS	Research Mode	PART TIME

Name :PITCHALAVIJAYA KUMAR

Date of Birth / Age :01-06-1985 / 35 Years

Gender :MALE

Category :SC

e-Mail ID :vijaykumar85p@gmail.com

Mobile :9493447240



Father's/Husband's Name	P YESU RATHNAM	Father's/Husband's Occupation	COOLY
Family Income	2 LAKHS	Residential Type	RURAL
Birth Place	KADIRI	Mother Tongue	TELUGU
Religion	HINDU	Martial Status	MARRIED
Aadhaar No.	403039718814	PAN No.	BMUPP2356M
Physically Challenged	NO	Type of Disability	-
Address for Communication: 3-18 KOWLEPALLE KADIRI ANANTAPUR DISTRICT ANDRAPRADESH INDIA Pin-515591		Permenant Address: 3-18 KOWLEPALLE KADIRI ANANTAPUR DISTRICT ANDRAPRADESH INDIA Pin-515991	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
M.TECH	POWER AND INDUSTRIAL DRIVE	JNTUK/GMRIT	2011	75	FIRST	REGULAR
B.TECH	ELECTRICAL AND ELECTRONICS ENGINEERING	JNTU/SKCE	2007	62.1	FIRST	REGULAR
INTER	MPC	GCSR	2002	77.1	FIRST	REGULAR
SSC		APRS	2000	79.1	FIRST	REGULAR

Experience					
Organization	Designation	Experience From	Experience TO	Work Nature	
MERITS	ASST.PROF.	2017-06-20	2020-12-07	TEACHING	

Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
202020060_201231194433	VHD49613570137	31-12-2020	600	SUCCESS

ABSTRACT

Permanent magnet Synchronous motors, from past few decades are playing a vital role in different areas and are proving to be very advantageous. These PMSM drives are also used in different control applications. Generally DC drives are used in control applications in earlier days but due to the simplicity, AC drives are used now a-days.

The control system is designed around the concept of two-loop control. The outer speed control loop generates a torque reference using a PI controller. A given torque may be realized by different combinations of the armature and the field currents. This flexibility is exploited to make additional specifications in the form of the torque angle and the internal angle of the motor. With these specifications, unique values of current references are generated. In case of permanent magnets the field current is not controllable, either the torque angle or the internal angle can be independently specified.

The inner loop is the current controller and it is designed as to be faster than the speed loop and the method of Exact Feedback Linearization Technique is done by this current loop and also the operation of the state feedback controller for achieving the steady state error and for the cancellation of the nonlinear terms are done using this loop. The system exactly linearized by a nonlinear state feedback. The unmeasurable damper winding currents are estimated by a nonlinear reduced order observer.

In this project, we aim at the speed control of the voltage source inverter fed PMSM drive by using an advanced controller namely H-8 Controller to make the system robust and also to get the effective performance characteristics achieving the zero steady state value even when there are changes in the system parameters.

Keywords: H-8 controller, state feedback control, exact feedback linearization, Permanent magnet motor.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

KAKINADA - 533 003, ANDHRA PRADESH, INDIA

Mr. Pitchala Vijayakumar

S/o P Yesurathnam

having fulfilled the academic requirements and passed the examination held during *June 2011* in ***First Class with Distinction***

has this day been admitted by the executive council to the degree of

Master Of Technology

(Power & Industrial Drives)

Given under the Seal of the University

HTNo : 08341D4209

Date : 08 March, 2016



[Signature]

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[Signature]

CONTROLLER OF EXAMINATIONS

DIRECTOR OF EVALUATION

REGISTRAR

CC 167196
ON SX ON NN SX

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY



HYDERABAD, ANDHRA PRADESH, INDIA

College Code: G8 (S K C E T, GOOTY)

Mr./Ms. Vijaya Kumar Pitchala
S/o/D/o P Yesurathnam

having fulfilled the academic requirements and passed the examination held during *April - 2007* in ** First Class ** has this day been admitted by the Executive Council to the Degree of

Bachelor of Technology
(Electrical & Electronics Engineering)

Given under the Seal of the University

H.T.No : **03G81A0258**

0715327

Date : 29 March, 2008



B. Deay Kumar

g v a l m 7

J. Lakshman

Controller of Examinations

Director of Evaluation

Registrar

Udayagiri
31.12.2020

To
The Director,
Research & Development,
Kalasalingam Academy of Research & Education
Krishnankoil - 626126.
TN.

Sub: TC for PhD admissions registration - Regarding..

Respected sir,

I, P. Vijay Kumar has applied for PhD in "Kalasalingam Academy of Research & Education". I would like to inform you that at present I don't have my "TC" and it is in the college where I pursued M.Tech. I will produce the same after getting selected for PhD admission in this college. I hereby request you to kindly consider this letter.

Thanking You sir,
Yours faithfully,
P. Vijay Kumar.

Date: 04-10-2016

TO WHOMSOEVER IT MAY CONCERN

Mr. PITCHALA VIJAY KUMAR has worked as a Sr. Faculty - Electrical in our Company "TURBO INSTITUTE OF INDUSTRIAL TECHNOLOGY PVT.LTD." during the period 01-10-2015 to 30-09-2016.

His Qualification as per our records is M.Tech (Power and Industrial drives)
His Conduct was satisfactory during the period.

For TURBO INSTITUTE OF INDUSTRIAL TECHNOLOGY PVT.LTD.


Authorized Signatory





St. Mary's Engineering College

(Approved by AICTE, Permitted by Govt. of T.S., Affiliated to JNTUH)

Near Ramoji Film City, Behind Mount Opera, Deshmukhi (V), Pochampally (M) Nalgonda (Dt.) & Batasingaram (V), Hayatnagar (M) Ranga Reddy (Dt.), Greater Hyderabad - 508 284. Under HMDA. Ph : 9010455590 / 91 / 92, 8498093076, 8498093080
E-mail: contact.smec@stmarysgroup.com contact@stmarysgroup.com www.stmarysgroup.com www.smecd.com

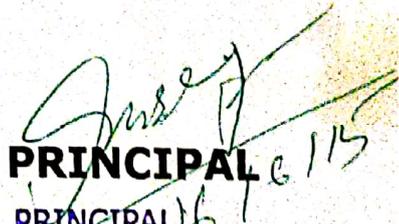
Date: 16.06.2015

SERVICE CERTIFICATE

This is to certify that **Mr. P.VIJAY KUMAR** has worked in our organization from **21st May' 2013 to 1st June, 2015** as **Assistant Professor**.

During his tenure of service as **Assistant Professor** has discharged his duties sincerely and to the best satisfaction of the Department / Management.

The organization wishes his good luck in all his endeavours.


PRINCIPAL
PRINCIPAL

St. Mary's Engineering College
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Nalgonda (D), Pin-508284, A.P.

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Ministry of Electronics and
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ELECTRONICS & ICT ACADEMY
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Sagi Rama Krishnam Raju (SRKR) Engineering College (Autonomous),
Bhimavaram, Andhra Pradesh



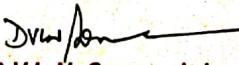
Participation Certificate

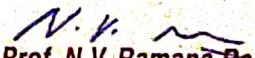
This is to certify that **P. Vijay Kumar**

from **Mekapati Rajamohan Reddy Institute of Technology & Science, Udayagiri**

has participated in MeitY, Govt. of India, Sponsored Faculty Development Programme (FDP) on "MOOCS, OPEN EDUCATION & OPEN EDUCATIONAL RESOURCES" Organized by the E & ICT Academy, National Institute of Technology, Warangal at Dept. of CSE, SRKR Engineering College (A), Bhimavaram, A.P. from 9th -11th November, 2017 (Part - 1) & 26th - 28th March, 2018 (Part - 2)

Dr. G.P. Saradhi Varma
Principal,
SRKREC (A), Bhimavaram


Prof. D.V.L.N. Somayajulu
Coordinator & Chair,
E & ICT Academy, NIT, Warangal


Prof. N.V. Ramana Rao
Director,
NIT, Warangal

आयकर विभाग

INCOME TAX DEPARTMENT



भारत सरकार

GOVT. OF INDIA

VIJAYA KUMAR PITCHALA

YESU RATNAM PITCHALA

01/06/1985

Permanent Account Number

BMUPP2356M

Signature



09022011

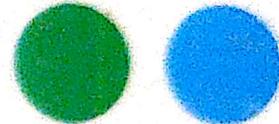


**INDIAN UNION DRIVING LICENCE
ANDHRA PRADESH**

AP32600315972019

**P VIJAYAKUMAR
S/O P YESURATHNAM
MERITS COLLEGE, UDAYAGIRI
UDAYAGIRI, UDAYAGIRI,**

**UDAYAGIRI
NELLORE-524226**



 **Aadhaar
Authenticated**

 **Digitally
Signed By**

Issued On: 25-03-2019

**Licensing Authority
UNIT OFFICE KAVALI**

Non Transport

Motor Cycle With / Without Gear, Light Motor
Vehicle Non Transport

Date of Validity
Transport

31-05-2035

Date of Validity
Badge No.

Reference No.

AP32600315972019

Original LA.

UNIT OFFICE KAVALI

Date of First Issue

25-03-2019

Date of Birth

01-06-1985

Blood Group

D05850290/14

8026
2508

ANNEXURE - III
FORM OF CASTE CERTIFICATE

This is to certify that Sri / Smt./Kum. P. V. Jay Kumar

S/o. D/o. G/o. P. Venu Lakshmanam

Resident of Kowlapalli castard Village/Town

Kadiri Mandal of Anantapur Dt.

has been verified as per procedure laid down and He/She belongs to the _____

S.C. C (Mala) Caste / Tribe Community which is recognised as scheduled

Caste / Tribe / Backward Class under.

The Constitution Scheduled Caste order 1950.

The Constitution (scheduled Tribe) order 1950.

G.O.Ms. No. 1793 Education Dt. 23-9-1970 as amended from time to time

(As amended by the (Scheduled Castes and Scheduled (Tibes Lists)

Modification under 1956 the scheduled Castes and Scheduled Tribes

Order (Amendment) Act. 1976

2) Sri./Smt./Kum. P. V. Jay Kumar and His/Her Family

Reside (s) Village/Town Kadiri of

Mandal Kadiri District Anantapur

Place

Date

25/8
2008
18/7



[Signature]
Signature
తహశీల్దార్
Disgnation

Please delete the words which are not applicoble కదిరి.

8026
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ANNEXURE - III
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[Signature]
Signature
తహశీల్దార్
Disgnation

Please delete the words which are not applicoble కదిరి.