



CURRICULUM VITAE

Dr.Dhananjay Balu Talange

**Retired Professor and Head of Electrical Engineering Department,
College of Engineering Pune. (COEP)**

***B.E. Electrical (Sp. Electronics)-Walchand. College of
Engg., Sangli.***

M.E. Electrical (Power Electronics)-V.J.T.I.Mumbai.

Ph.D.(Systems and Control Engg.) I.I.T.Bombay, Mumbai

Last Affiliation:

Electrical Engineering Department
Govt. College of Engineering, Pune
Shivajinagar, Pune – 411 005 (M.S.)

Present Address for Communication:

Building No.5, Flat No.28,
Ichalkaranji Kapad Market Housing Complex,
At Post- ICHALKARANJI, District: Kolhapur.
Behind Sutantu Sizing, PIN: 416115. (M.S.)

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Date of Birth

: 10th December, 1958

1. Educational Qualifications:

Year	Qualification	Institute/Board	% Marks
1975	S.S.C. (XI)	M.S.B.S.S.C., Pune.	86.00
1977	Inter Science	Shivaji University, Kolhapur.	76.00
1981	B.E.(Electrical)	Walchand College of Engg., Sangli.	81.89
1983	M.E. Electrical	Victoria Jubilee Technical Institute, Matunga, Mumbai-19.	63.00
2005	Ph.D. (Systems and Control Engg.)	Indian Institute of Technology, Bombay, Powai, Mumbai-76.	---
1997	D.I.M. (Human Resource)	Indira Gandhi National Open University, New Delhi.	--

2. Academic Projects:

- **B.E. (Electrical) Thesis:** 1981
 - Title: *Magnified Display of a Digital Clock.*
 - Guide: Prof. G. G. Tengashe, **Walchand College of Engineering, Sangli**
- **M.E.(Electrical) Thesis:** 1981-83
 - Title: *Microprocessor Based Speed Control of a three phase Induction Motor using V/f method.*
 - Guide: Dr. S.S. Padhye, **Victoria Jubilee Technical Institute, Matunga, Mumbai.**
- **Ph.D. Thesis:** 1998-2005.
 - Title: *Modeling and Spatial Control of a Large Nuclear Reactor with Reactivity Feedback Effects.*
 - Guide: Dr. B. Bandyopadhyay, Systems And Control Engineering Dept.
 - **Indian Institute of Technology, Bombay, Powai- Mumbai.**
 - Dr. A.P.Tiwari, Senior Scientist, Reactor Control Division,
 - **Bhabha Atomic Research Centre, Trombay, Mumbai.**

2. Overall Professional Experience:

Period	Organization	Designation
May1984- July 1986 (2.25 Yrs.) (INDUSTRY)	Oil and Natural Gas Commission of India, Bombay Offshore Project, Bombay.	Assistant Executive Engineer (Electrical)
Oct.1986– July 1990 (3.75 Yrs.) (ACADEMIC)	Tatyasaheb Kore Institute of Engineering & Technology, Warananagar, Dist-Kolhapur- PIN: 416 113.	Lecturer in Electronics Engg.
August 1990 – February 2003 (12.5Yrs) (ACADEMIC)	Tatyasaheb Kore Institute of Engineering & Technology, Warananagar, Dist-Kolhapur- PIN: 416 113.	Asstt. Prof. in Electronics Engg. (Head of Electronics Dept. during 1994 to 2000 (6 Yrs)
February 2003 – To December 2018 (15 Yrs) (ACADEMIC)	Govt. College of Engineering, Pune.	Professor of Electrical Engineering, (Head of Electrical Dept. during Nov. 2004 to July 2009- and again from Feb.

		2016 till December 2018)
January 2019 onwards (INDUSTRY)	DNA Precision Works, Ichalkaranji, District Kolhapur, Maharashtra. (A MSME engaged in Electrical and Mechanical parts and assembly production)	Technical Advisor and Consultant for various technical Activities, projects and product development.

Industrial Exp.: 2.25 Yrs.; Teaching Exp.: 32Yrs; Research Experience: 6 years;

Total Experience: **35 Yrs +**

3. **Sponsored Research Projects:**

I have obtained different grants by applying to the research funding agencies and completed the sponsored research projects benefitting students, researchers and the nation as under:

1. In June 1994, one of my research project proposals was selected at the Board of Research in Nuclear Sciences, **Bhabha Atomic Research Centre, Trombay**, for funding worth Rs.4.5 lakh. The project was for the indigenous development of a power electronics and control system for the Department of Atomic Energy and was entitled as, "Design and development of a Variable Low frequency Power Supply" This project has been successfully completed.
2. During 2011-2014, I have worked as the Principal Investigator for a Sponsored Research Project of Naval Research Board, New Delhi, worth Rs. 23.85 Lakh on Autonomous Underwater Vehicles for its advanced modeling and fault tolerant controller design. This project has been successfully completed.

4. **Consultancy/Industrial Assignments/Outreach Activities:**

1. **I have carried out various consultancy assignments in the field of Electrical, Electronics, Instrumentation and Information Technology. They included repair, maintenance and design of different engineering systems for the organizations like:**

- **Warana Paper Mills for their DC drives.**

- **ManuWeb, Kodoli for their DC drives.**
 - **Warana Dairy for their Milko Tester units.**
 - **Hatcospin, for their soft starters and Instrumentation systems.**
 - **PECON, Ahmedabad for their Static AVR installation projects at various Sugar Factories in Maharashtra State.**
 - **The Sangli District Central Co-operative bank Ltd. for the Computerized Networking solution of Banking system at 56 branches in the rural and urban areas of Sangli District.**
 - **The Primary Teachers' Co-operative Bank Ltd., Sangli for the Computerized Networking solution of Banking system involving 14 branches in the Sangli District.,**
2. **I am a certified ENERGY AUDITOR as certified by the National Productivity Council since 4th September, 2008 and helped several industries/organizations to conserve energy and save money.**
 3. **Worked as the consultant for carrying out a research on modeling of Electrolytic Capacitor Aging and Characterization for Eaton Inc. Pune from July 2015. (Consultancy Charges Rs. 2 lacs).**
 4. **Worked as the consultant for Mahindra & Mahindra Ltd. Mumbai for carrying out the performance evaluation of 2kW solar PV roof Top systems in Oct. 2015 in their Solar Challenge 2015, Level-1 event. (Consultancy Charges: Rs.5 Lacs).**
 5. **Worked as the consultant for Mahindra & Mahindra Ltd. Mumbai for carrying out the performance evaluation of 2kW solar PV roof Top systems from Feb. 2016 in their Solar Challenge 2015, Level-2 event. (Consultancy Charges: Rs.4 Lacs).**
 6. **Worked as consultant to carry out third party audit for the LED street lighting systems of various municipal corporations in Maharashtra State (Lonawala, Alandi, Junnar, Daund, Dahanu, Shirdi, etc.)(Consultancy Charges Rs.12 Lakh)**
 7. **Worked for consultancy work of design vetting of various electrical, Firefighting and Alarm systems in the projects by EPIL (Engineering Projects India LTD. (Consultancy Charges: Rs.1.5 Lakh.)**
 8. **Worked as a consultant for Design validation and Testing of Online Tap Changing system for Power Transformers for CTR, Pune.(Consultancy Charges: Rs.2 Lakh)**
 9. **Worked as a consultant to carry out third party audit for Solar PV System of 50kw capacity with Net Metering Facility for Pimpri Chinchwad Municipal Corporation in year 2018. (Consultancy Charge Rs.5 Lakh)**
 10. **Working as consultant to carryout Motor and Controller Development Project for E-Mobility application with TATA Motors LTD, Bhosari, Pune.**
 11. **Worked as External Expert Member of Peer Review Committee for Defense R&D Organization, Government of India (DRDO) for development of Electronic Fuse for Extended Range Anti-Submarine Rocket (ER-ASR) , Pune.**

12. **Worked as a Consultant for design and prototype development of an Electrical Linear Generator (250 Watts instantaneous output power capacity) for converting energy of shocks and vibrations of mechanical movement into electrical energy and storing the same regeneratively. This work was done for DNA Precision Works, a MSME in Ichalkaranji in 2019. (Consultancy Charges: Rs.1 lakh).**
13. **Worked as a Consultant for Patent Protection of a Transformer Instrumentation System for CTR Pune in 2019. (Consultancy Charges: Rs.1 lakh).**

5. Memberships:

1. Life-Member of Indian Society of Technical Education, ISTE. (LM 4275)
2. Member of Institution of Engineering and Technology, (IET). (1100315577)
3. Member of Institution of Electrical and Electronics Engineering, (IEEE), Membership No.92939134.

6. Publications:

Research Publications at national and international journals and conferences:

▪ International Journals	: 35
▪ International Conferences	: 48
▪ National Journals	: 05
▪ National Conferences	: 21
▪ Total published Research Papers	: 109
▪ Books	: 12
▪ Patents	: 05

Number of Indian Patents filed and Published: 05:

Area of Investigation and Innovation: SUPER CAPACITORS.

Patent 1

Title: Method of manufacturing electrode for supercapacitor

Date of filing: 14 Oct 2010, Date of Publication: 07 January 2011

Application No 2858/MUM/2010

Patent 2

Title: Sandwich type supercapacitor making process

Date of filing: 23 March 2011, Date of Publication: 16th September 2011

Application No 841/MUM/2011

Patent 3

Title: Regenerative Braking in an electric two wheeler using

Supercapacitors. Date of filing: 23 March 2011, Date of Publication: 16th September 2011

Application No 843/MUM/2011

Patent 4

Title: Design and development of MEA for high peak power fast responding PEM fuel cell

Date of filing: 8th March 2016, Date of Publication: 15th June 2016

Application no. 201621007958

Journal no.16/2016

Patent 5

Title: Development Characterization of Supercapacitive PEM Fuel Cell.

Date of Publication: 23/03/2018

Application no.201821008313.

Journal no.12/2018

Ichalkaranji



Dr.D.B.Talange.

Date: 01/12/2022