

Dr. Dinesh K. Anvekar
Mobile: 99459 19882



Summary of achievements during Sept 2020 to Nov 2021

12 patents filed with 20 RNSIT faculty, 1 patent granted, 2 papers published, 10 products developed, 20 Teaching aids produced by students and myself...

Highlights of Resume: Dr. Dinesh K. Anvekar

- Over 16 years of R&D experience in Indian Institute of Science during 1982-98
- Unique Combination of Innovation, Six Sigma, and Academic Experience
- Current: Senior Professor, RNS Institute of Technology
- Chief Technology Officer (CTO) Lab2Market, IISc Startup
- Ex-Director R&D @ Vijaya Vittala Institute of Technology (VVIT)
- Ex-Director Entrepreneurship & Professor of Computer Science @ CMRIT
- Honeywell Six Sigma Black Belt trained and certified
- American Society of Quality (ASQ) Certified Six Sigma Black Belt
- Mentored and guided 300 Six Sigma Green Belt Projects in Honeywell
- Expertise in innovation techniques including the Russian TRIZ
- Worked as Lead, Innovation Initiatives at Honeywell Technology Solutions Lab
- Worked as Research Staff Member for 1.5 years in IBM Solutions Research Center, India
- Received First Plateau Award from IBM and filed 6 US Patents
- 15 US patents issued for work done in IBM Solutions Research Center during 1998-99, AT&T Bell Labs during 1993-94, and Lotus Interworks during 2000-04, and for Nokia Research Center, Finland (see Appendix 1)
- 100 Patents filed in India in 10 months Sept.2014-June 2015 (see Appendix 2)
- 1 Indian Patent granted through Indian Institute of Science
- 18 Years of teaching experience in IISc and other Institutes
- Carried out Bluetooth related wireless research work in IBM Solutions Research Center, India
- Was a Indo-US visiting fellow at IBM TJ Watson Research Center in 1994
- 15 US patents filed in Lotus Interworks, Inc, USA during 2000-2003 in the capacity of Director for Strategic Focused Publications
- Completed two Nokia sponsored projects in Indian Institute of Science during 1997-1998
- Received Best PhD Thesis Award of Indian Institute of Science
- Author of one book and over 55 technical papers
- Received Invention Report Awards from Nokia Research Center, Finland
- Lucent Technologies (Bell Labs) Award for paper contribution to Bell Labs Technical Journal
- Fellow of IETE and Senior Member of IEEE
- Received KAAS Young Scientist Award in Karnataka State, India
- Supervised over 40 undergraduate and graduate engineering projects and research students in the Indian Institute of Science

Interesting tidbits about Dr. Dinesh Anvekar

- **1st Rank and State Award winner in 1979 for getting highest marks in Electronics among all engineering universities in Karnataka**
- **1st Rank and State Award winner in 1979 for getting highest marks in Electronics among all engineering universities in Karnataka**
- **Has memorized all the 18 Chapters of Bhagavadgeeta**
- **Has memorized and recited three sahasranamas: Dattatrya, Vishnu, and Lalitha**
- **Has undertaken a difficult uphill trek of 13 Kms on Kumaragiri hill at Subrahmanya near Mangalore**
- **Built a working steam engine in UVCE even though an electronics engineering student during 1974-79**
- **1st Rank and State Award winner in 1979 for getting highest marks in Electronics among all engineering universities in Karnataka**
- **Got appreciation from Vice-Chancellor of Bangalore University Mr. Jayaraman for building and demonstrating a working computer built with simple ICs**
- **First post-graduate student in IISc who built a microprocessor based robot**
- **Unique student of UVCE to have built a CRT camera and captured waveforms in lab, and incorporated in semester record book**
- **Sported a 1-foot beard for 5 years while in Indian Institute of Science**
- **Unique IISc ME student to have won IEEE region 10 paper contest**
- **Has invented and built 10's of teaching aids and working models**
- **Has received Kriya Yoga Deeksha from Swami order of Paramahansa Yogananda, Paramahansa Prajnanananda, and Marshal Govinda**
- **Has practiced meditation for over 25 years**
- **Unique VTU faculty to have built a working double acting working steam engine**
- **First from Daivajna Brahmin community to have secured 1st rank in BE and ranks in SSLC and PUC**
- **Created a record by conducting 6-days' non-stop six sigma training in Honeywell Technology Solutions**
- **First employee of Honeywell among 30 to have obtained Six Sigma Black Belt certification in the shortest time of 6 months.**

DETAILED RESUME

Name: Dr. Dinesh K. Anvekar

Contact Number: India (+91) 99459 19882

Email: dinesh.anvekar@gmail.com

Current Employment:

Organization: RNS Institute of Technology

Designation: Senior Professor

Earlier Employment:

1. Chief Technology Officer (CTO) Lab2Market, IISc Startup
2. Director R&D, and Professor of Electronics and Communication Engg., Sapthagiri College of Engineering
3. Director R&D, and Product Innovation Cell, Vijaya Vittala Institute of Technology (VVIT), Bangalore
4. Principal and Distinguished Professor, E&C, Alpha College of Engineering
5. Departmental Head & Professor of Computer Science ,NMIT,Bangalore
6. Director Entrepreneurship & Professor of Computer Science, CMR Institute of Technology, Bangalore, India
7. Lead, Innovation and Six Sigma, Master Teacher/Trainer, DFSS and Innovation (Nov 2003-Aug 2012) @ Honeywell Technology Solutions Lab, Bangalore, India
8. Senior Member of Technical Staff & Director for Strategic Focused Publications
9. (Jan. 2000- Oct. 2003), Lotus Interworks, Inc, Piscataway, New Jersey, USA
10. Research Staff Member (Oct 1998 to Dec. 1999)IBM Solutions Research Center, New Delhi, India
11. Faculty Member (Sept. 1982- Sept.1998), ECE Department, Indian Institute of Science, Bangalore, India

Academic Qualifications:

Examination/ Degree	Board/ University	Year	Marks/Percent/ GPA	Remarks
S.S.L.C	MSEE Board	1972	84.7	15th Rank for State
I P.U.C II PUC	Board of P.U. Education	1973 1974	90.0 85.7	3rd Rank for State 8th Rank for State
B.E. (Electronics)	Bangalore University	1979	88.5	1st Rank, Gold Medallist, State Award Winner
M.E. (Automation)	Indian Institute of Science	1981	3.9 out of 4.0	Top Grade with Distinction
Ph.D. * (Micro- Electronics)	Indian Institute of Science	1990	'A' Grade for Course Work	Best Thesis Award (Gold Medal) of IISc; Completed in 2.5 years

Summary of Qualifications:

Six Sigma Black Belt from Honeywell and American Society for Quality (ASQ). Expertise in Innovation and Ideation methodologies including TRIZ, Lateral Thinking, and SIT. Over 16 years of R&D, teaching, and project management experience in Indian Institute of Science (ranked 18th best in the world). 7 Years experience as Professor, HOD, Dean, Principal in VTU Colleges and Institutions. Exposure to areas of Computer Engineering and Software, Electronics Communications with emphasis on Wireless Cellular Handovers and Bluetooth Wireless Communications, Microelectronics and ASICs, and Digital Circuits/Systems Design. Highly inventive and creative; well-versed with TRIZ and lateral thinking tools and techniques; quick to learn new technologies; highly responsible; and excellent in written and oral communication skills

PhD Supervision:

As External Guide from Honeywell:

Ms. Kiran Gupta (VTU 1DS07PEN02), Assoc. Prof., ECE Dept, Dayanand Sagar College of Engineering

Thesis Title: VLSI Deep Sub Micron Circuit design Techniques for Low Power Management and High Performance

Status: Degree awarded

Completed:

Dr. Shanthi, Assoc Prof, CMRIT, Bangalore

Dr. Sudhakar, Assoc. Prof, CMRIT, Bangalore

Dr. Sanchari Saha, Asst Prof., MVJIT, Bangalore

Professional Experience:

0. In VTU Colleges of Engineering , Bangalore (From July,2015 to Dec2019)

Overhauled the college by efficient administration, usage of six sigma principles. Conducted as an expert resource person Six Sigma workshops and Six Sigma training for engineering faculty; Developed engineering artifacts for installation in the campus; Developed 25 engineering teaching aids; 32 Indian patents granted, 68 pending, 10 products developed...

1. In Nitte Meenakshi Institute of Technology, Bangalore (From May,2014 to June,2015)

As HOD and Professor of department of computer science and engineering, took a number of improvement initiatives both in faculty development and pedagogy quality improvement; Systematic assessment of all the faculty in terms of their overall performance in the classes was made and several lines of improvement were suggested to each faculty member; Two courses taught using innovative teaching aids; several Arduino microcontroller based projects guided during summer term; 6 faculty members mentored to initiate research and publish papers; 8 faculty members and 2 students mentored for patenting and involved as co-inventors in 6 out of 100 patents filed in Indian Patent Office in Chennai during Sept 2014 to June 2015; Developed

a tennis ball tossing machine as a consultancy project for an American tennis coach; Guided aeronautical engg students in building an 8ft wing span aero-model.

2. In CMR Institute of Technology, Bangalore, (From Aug. 2012 to May.2014)

As Director for Entrepreneurship Development and Professor of department of computer science and engineering, initiated 3 student entrepreneurship proposals with outside entities; was a member of program committee for entrepreneurship initiative of FKCCI, Karnakata called Mathan; Offered course in basic mechanical engg, and basic civil engg, and guided 8 educational projects for students during the courses; Developed several innovative products as examples for students to develop the spirit of entrepreneurship; Conducted pedagogy development sessions for faculty from CS and other departments.

3. In Honeywell Technology Solutions Lab, Bangalore, India (From Nov.2003 to Aug. 2012)

Major responsibilities in this lab are driving innovation initiatives to enhance IP portfolio, conducting innovation workouts, and managing the innovation system of the company; Completed a Six Sigma Black Belt project on Improving Organization Innovation System; Conducted 200 Innovation Training/Workout Sessions with more than 3000 participants and enabled generation of about 3000 innovative ideas. Currently, in addition to innovation activities, involved in DFSS and Six Sigma related activities: Mentoring GB mentors and GB teams, GB certification reviews, DFSS training sessions. More than 250 GB projects reviewed and certified and 200 GB projects mentored.

4. In Lotus Interworks, Inc, Piscataway, NJ, USA (From Jan. 2000 to Oct. 2003)

Was responsible for inventive research in the areas of Internet applications, prepaid telecom applications, and wireless phone roaming; and managing intellectual property and patenting process in the company; A co-inventor for fifteen inventions that have been filed for US patents. Also, worked on CLIPS based inference engines for use in some projects.

**5. In IBM Solutions Research Center, New Delhi, India
(From Oct 1998 to Dec. 1999)**

The work in this research center was in the area of algorithms development for Bluetooth based wireless communication systems. Two new inventions related to handoff and battery power saving in Bluetooth networks were developed. The work involved simulation studies using c++ language and supervising the work of two project assistants. Also, I invented a new type of computer mouse for use with laptops and a new method of non-disclosing password entry.

**6. In AT&T Bell Labs, NJ and IBM T.J.Watson Research Center, NY, USA
(During 1993-94)**

Worked in these centers on the problem of handoffs in mobile cellular communication systems. The work involved development of new handoff algorithms and their performance evaluation through simulation using CSIM language. A new method of handoff prioritization and a new scheme of channel reservation based on pre-handoff traffic information were developed.

**7. Nokia projects in Indian Institute of Science, Bangalore, India
(During 1997-98)**

In the role of the chief project executive, successfully managed and completed two projects sponsored by Nokia research center, Finland. The projects were on handoff management in packet data cellular networks with reference to mobile web browsing applications. First part of the project involved studying and developing traffic models for www traffic, and the second part used these models to study the performance of new handoff schemes. A new packet multicasting scheme based on pre-handoff zones was developed and several other schemes for QoS measurement and packet data communication were developed. The project team consisted of five post-graduate students and two scientific assistants. The work involved development of simulation programs using C++ and C++SIM languages.

**8. In ECE Department Indian Institute of Science, Bangalore, India
(During 1985-1998)**

The research and development work involved the following:

- a) Invention of five new schemes for handover management in mobile microcellular communication systems
- b) Invention of several new techniques for programmable nonlinear A/D conversion
- c) Analytical performance evaluation of a blackboard memory based multimicroprocessor system
- d) Transducer output signal processing using a multimicroprocessor system
- e) Implementation of multi-user time-shared microcomputer system
- f) Development of microprocessor based industrial robot
- g) Indigenous development of MSI IC-based educational computer as a teaching aid.

**7. CAD software work in State University of New York, NY, USA
(From Feb. to July 1986)**

This work carried out during 1986 involved designing VLSI layout for a bit-sliced ALU using the MAGIC software package. The layout was included in a VLSI CAD library in SUNY.

**8. Software development for Rotor Balancing Machine
(During 1998)**

This project involved the development of a software package for measurement and display of rotor imbalance data through a graphic user interface. The software was written in C language.

**9. Software development for programmable logic controller
(During 1992-93)**

This project involved the development of assembler and simulator packages in C language for a programmable logic controller.

**10. Software development for microcontroller based products
(During 1994-1998)**

This involved the development of programs in assembly language of popular microcontrollers from Intel and Atmel for electronics alarm systems for automobiles and home applications.

Patents:

- 2 US patents through AT&T Bell Laboratories
- 6 US Patents through IBM Research Center (5 issued and 1 pending)
- 15 US patents through Lotus Interworks (4 issued, and 11 pending)
- 1 US Patent through Nokia Research Center
- 1 UK Patent through Nokia Research Center
- 2 Indian patents through Indian Institute of Science (pending)

(See **Appendix 1**)

Honors/Awards Received:

Lucent Technologies (Bell Labs) Award for paper contribution to Bell Labs Technical Journal, 1997

IBM Research Patent Filing Awards and First Plateau Award for Creative contributions to the progress of IBM

Young Scientist 1994 Award of the Karnataka Association for the Advancement of Science

Best PhD Thesis Award (1990) of the Institute

Invention Report Awards (2) from Nokia Research Center, Finland, 1997-98

Fellowship Visits to USA:

Visited the State University of New York, USA in 1986 as a UNIDO fellow for work in the area of CAD of electronic circuits.

Visited the following research centers in USA as a visiting scientist under Indo-US Fellowship Program:

(a) AT&T Bell Laboratories, Murray Hill, NJ, from Aug. 1993 to Feb. 1994

(b) IBM T.J. Watson Research Center, Hawthorne, NY, from March 1994 to July 1994

Sponsored International Projects:

As the chief investigator successfully completed two projects in the area of Handover Management in Packet Data Cellular Networks, funded by Nokia Research Center, Finland under MoU between Nokia and the Indian Institute of Science.

Consultancy:

Carried out consultancy work for Aerospace Systems Ltd, of TATA group for a project on 'Development of Microelectronic Products/Systems' undertaken through the Indian Institute of Science during 1998.

Professional Membership:

Fellow of the Institution of Electronics and Telecommunication Engineers (IETE), India

Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), USA

Guidance of Students' Project Work:

Supervised for 25 Bachelor of Engg projects and 18 Master of Engg. projects
Participated in project advisory and evaluation committees.

Electronics Product Development and Inventions:

Programmable Self-Tester

- a device useful for students in self testing using objective type questions
- thrice won I prizes in the electronics talents contests organized by IEEE (India),IETE (Karnataka), and KREC (Suratkal)

Rescomp

- an inexpensive mechanical device for decoding and digitally displaying resistance color codes

Electronic Calendar

- a calendar based on electro-mechanical switching network

Product Development

Fountain Pump Sequencer, Water Pump Controller, Microcontroller-based Car Theft Alarm

Computer Construction

Cheap As Possible (CAP-1) computer built using standard SSI and MSI TTL ICs.

- won I prize at the IEEE-IETE State Level Electronics Talents Contest in 1980.

SKARC-81 Computer and Robot

- built using Z-80 microprocessor,
- won I prizes in the IEEE-IETE State Level Contest and the IEEE India Council All-India Student Model Contest in 1981

Book Authorship:

D.K.Anvekar and B.S.Sonde 'Electronic Data Converters- Fundamentals and Applications',
Tata McGraw-Hill, India, 1994

Technical Papers:

Over 55 papers in the area of electronics and communication engineering published in journals and conferences. (See **Appendix 3**)

Appendix 1

Some U S Patents

(Through AT&T Bell Laboratories)

1. 'Method of Prioritizing Handoff Procedures in a Cellular System'
US Patent No. 5,465,389 issued on Nov. 7, 1995
2. 'Traffic Driven Channel Reservation System for Handovers in Cellular Networks'
US Patent No. 5,530,912 issued on Jun. 25, 1996

(Through IBM Solutions Research Centre)

3. 'Method and apparatus for mouse pointer positioning device based on infrared light sources and detectors'
US Patent No. 6,333,735 B1 issued on Dec. 25, 2001
- 3a. 'Method and apparatus for mouse pointer positioning device based on infrared light sources and detector'
Filed on March 16, 1999. Docket Number: YO998-507
4. 'Maintaining Data Communication through Neighboring Mobiles Units During Handoff'
US Patent No. 6,377,805 B1 issued on Apr. 23, 2002
5. 'Method for non-disclosing password entry'
US Patent No. 6,658,574 B1 issued on Dec. 2, 2003
6. 'Mobile battery discharge minimization in indoor wireless networks by antenna switching'
US Patent No. 6,594,475 B1 issued on July 15, 2003
7. 'Frequency lookahead and link state history based scheduling in indoor wireless pico-cellular networks'
US Patent No. 6,961,363 B1 issued on Nov 01, 2005

(Through Lotus Interworks)

8. 'Roaming in wireless networks with dynamic modification of subscriber identification'
US Patent No. 6,603,968 B1 issued on August 5, 2003
9. 'Global wireless prepaid roaming'
US Patent No. 6,684,072 B1 issued on Jan. 27, 2004
10. 'Anonymous redemption and stored value system and method'
US Patent No. 6,834,796 B1 issued on Dec. 28, 2004
11. 'Multi-party concurrence through short message service exchanges'
US Patent No. 6,996,409 B2 issued on Feb. 07, 2006

(Through Nokia Research Center)

12. 'Method and apparatus for the transmission of packets of data'
US Patent No. 7,012,905 B2 issued on Mar. 14, 2006

(Through Nokia Research Center)

1. 'Method and apparatus for the transmission of packets of data'
Filed on 14th July 1999. Number: PCT/EP99/04979

European Patent

(Through Nokia Research Center)

1. 'Method of Multicasting Data Packets Based on Packet Multicasting Zones in Mobile Cellular Networks'

Filed on 21st July 1999 in Great Britain

Number: 9815886.8

Appendix 2

Indian Patents

Through Indian Institute of Science

1. A HARDWARE FUZZY INFERENCE SYSTEM, 1997/06/23, 1364/MAS/1997, Granted

100 Patents filed at Patent Office Chennai, follows:

Sept. 19th 2014: Appln Nos. 4565-67/CHE/2014

Oct. 7th 2014: Appln Nos. 5007, 5008, 5011-5015, 5019, 5020/CHE/2014

Nov. 5th: 2014; Appln Nos. 5541- 5558/CHE/2014

Dec. 5th 2014: Appln Nos. 6137-6156/CHE/2014, 6272/CHE/2014

Jan. 23rd 2015: Appln Nos. 328-331, 333-337/CHE/2015

Feb. 24th 2015: Appln Nos. 851-860/CHE/2015

Apr. 21st 2015: Appln Nos. 2027-2034/CHE/2015

May. 22nd 2015: Appln Nos. 2561-2570/CHE/2015

June 23rd 2015: Appln Nos. 3128-3134, 3136-3138/CHE/2015

List of Filed Indian Patents

SI No	Title of Invention	Inventors	Date of filing	Application No.
1	Method and apparatus for ergonomically displaying fuel meter values in automotive fuel stations	Dinesh Anvekar and Venugopal Rajuk	19/09/2014	4567/CHE/2014
2	Method and apparatus for viewing fuel meter values in automotive fuel stations	Dinesh Anvekar and Venugopal Rajuk	19/09/2014	4566/CHE/2014
3	Method and apparatus for displaying signal time of traffic control lights	Dinesh Anvekar and Venugopal Rajuk	19/09/2014	4565/CHE/2014
4	App for answer script evaluation	Dinesh Anvekar, Venugopal Rajuk, Saurabh Adhikari, and Nuzha Rukiya	7/10/2014	5015/CHE/2014
5	Method for ordering fuel in automotive fuel stations	Dinesh Anvekar and Venugopal Rajuk	7/10/2014	5020/CHE/2014
6	Traffic sensing hoarding	Dinesh Anvekar and Venugopal Rajuk	7/10/2014	5007/CHE/2014

7	Method of third party payment in ATMs	Dinesh Anvekar and Venugopal Rajuk	7/10/2014	5008/CHE/2014
8	Stopping aid for two-wheelers	Dinesh Anvekar and Venugopal Rajuk	7/10/2014	5011/CHE/2014
9	Weighing method and apparatus on bicycles for weight watchers	Dinesh Anvekar and Venugopal Rajuk	7/10/2014	5019/CHE/2014
10	Teaching aid for teaching concepts of stacks in computer science education	Dinesh Anvekar, Venugopal Rajuk, Vijaya Shetty, and Sujatha Joshi	7/10/2014	5014/CHE/2014
11	Wireless control of locomotives jumping red signal	Dinesh Anvekar and Venugopal Rajuk	7/10/2014	5012/CHE/2014
12	Control of locomotives jumping red signal through image processing computer	Dinesh Anvekar and Venugopal Rajuk	7/10/2014	5013/CHE/2014
13	Digital bookmark	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5544/CHE/2014
14	Electric plug ejecting adapter	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5545/CHE/2014
15	Rain drain for rectangular flat tents	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5546/CHE/2014
16	Rain shade for cars	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5547/CHE/2014
17	Poking pin for water dispensing bottles	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5548/CHE/2014
18	Segmented bottles	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5549/CHE/2014
19	Fizz controlling caps for carbonized beverage bottles	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5550/CHE/2014
20	Two-way control switches with ON indication	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5551/CHE/2014
21	Answer booklet collection box	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5552/CHE/2014
22	Barcode meter display and machine reading	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5553/CHE/2014
23	Answer script evaluation slips	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5554/CHE/2014
24	Marks table flap for answer booklet	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5555/CHE/2014
25	Distributed locomotive horning	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5556/CHE/2014
26	Mirror apparatus for taking 'selfie' shots on smart phones	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5557/CHE/2014

27	Adapter for left-right indicator in automobiles	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5542/CHE/2014
28	Glare reducing visor for inner rear view mirror in automobiles	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5541/CHE/2014
29	Outer rear view mirror glare reduction apparatus for automobiles	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5543/CHE/2014
30	Answer booklets with slotted marks table	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	5558/CHE/2014
31	Refill bottle installing adapter	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	6154/CHE/2014
32	Fingers wash box	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	6156/CHE/2014
33	Hand gesture based calling and directing elevator cars	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	6155/CHE/2014
34	Flap between building and car floors in elevators	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	6153/CHE/2014
35	Electronic display on escalator handrail belts	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	6152/CHE/2014
36	Prioritizing ambulances in traffic lights with flashing light	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	6151/CHE/2014
37	Rain shade for outer rear view mirrors of automobiles	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	6150/CHE/2014
38	Foot pedal calling switches for elevators	Dinesh Anvekar and Venugopal Rajuk	5/10/2014	6149/CHE/2014
39	Electronic menu for food items in restaurants	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6148/CHE/2014
40	Uniform probability pair of dices	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6147/CHE/2014
41	Razor handle with shave counter	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6146/CHE/2014
42	Hobby RC airplane control chair	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6145/CHE/2014
43	Tea cup with tea leaves	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6144/CHE/2014
44	Beeping hour glass	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6143/CHE/2014
45	Automatic ground floor selection in elevators	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6142/CHE/2014
46	Wireless tokens for customers	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6158/CHE/2014
47	Locomotive red signal warning through GPS	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6139/CHE/2014

48	Daytime disabling of electric power in solar water heaters	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6141/CHE/2014
49	Stairs climbing contraption	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6140/CHE/2014
50	Hygienic ear buds with color coding	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6136/CHE/2014
51	Airbag device for water safety	Dinesh Anvekar and Venugopal Rajuk	5/12/2014	6138/CHE/2014
52	Water tight glove	Dinesh Anvekar, Venugopal Rajuk, Kavitha Sooda	5/12/2014	6137/CHE/2014
53	Date and identification recording toothbrush	Dinesh Anvekar and Venugopal Rajuk	23/01/2015	6272/CHE/2014
54	Tear-free check leaves	Dinesh Anvekar, Venugopal Rajuk, and Prabhakar Kotishwar	23/01/2015	337/CHE/2015
55	Tamper-proof correctable without erasure OMR marking for multiple choice questions	Dinesh Anvekar, Venugopal Rajuk, Nirmala Saunshimath, and Asha H.V.	23/01/2015	336/CHE/2015
56	Compacting apparatus for bottles and cans	Dinesh Anvekar, Venugopal Rajuk, and Jyotsna Anand	23/01/2015	333/CHE/2015
57	Cake cutting apparatus	Dinesh Anvekar and Venugopal Rajuk	23/01/2015	328/CHE/2015
58	Ejecting electric plug	Dinesh Anvekar and Venugopal Rajuk	23/01/2015	329/CHE/2015
59	Coding-decoding of answer scripts	Dinesh Anvekar, Venugopal Rajuk, Vijaya Shetty, Prathibha Ballal, and Ranganatha Setty	23/01/2015	331/CHE/2015
60	Electric plug ejecting socket	Dinesh Anvekar and Venugopal Rajuk	23/01/2015	335/CHE/2015
61	Patient walker with sliding platform	Dinesh Anvekar and Venugopal Rajuk	23/01/2015	330/CHE/2015
62	Dual advertisement board with two colors	Dinesh Anvekar and Venugopal Rajuk	23/01/2015	334/CHE/2015
63	Reusable seven segment price tag	Dinesh Anvekar and Venugopal Rajuk	24/02/2015	851/CHE/2015
64	Barcode valuation sheet for answer scripts	Dinesh Anvekar and Venugopal Rajuk	24/02/2015	852/CHE/2015
65	Water saving tap	Dinesh Anvekar and Venugopal Rajuk	24/02/2015	853/CHE/2015

66	Airport pick-up identification system	Dinesh Anvekar and Venugopal Rajuk	24/02/2015	854/CHE/2015
67	Staples with labels	Dinesh Anvekar and Venugopal Rajuk	24/02/2015	855/CHE/2015
68	Sliding lid dust bin	Dinesh Anvekar and Venugopal Rajuk	24/02/2015	856/CHE/2015
69	Outer rear view mirror movement linked with turn indicator in automobiles	Dinesh Anvekar and Venugopal Rajuk	24/02/2015	857/CHE/2015
70	Digitizing rubberstamp and pad for answer script valuation	Dinesh Anvekar and Venugopal Rajuk	24/02/2015	858/CHE/2015
71	Flipping-flaps advertisement apparatus	Dinesh Anvekar and Venugopal Rajuk	24/02/2015	859/CHE/2015
72	Cash withdrawal from ATMs with bar-coded check leaves	Dinesh Anvekar and Venugopal Rajuk	24/02/2015	860/CHE/2015
73	Pressure cooker stove shut off apparatus	Dinesh Anvekar and Venugopal Rajuk	21/04/2015	2030/CHE/2015
74	Pre-ordering of passengers near gate before boarding an aircraft	Dinesh Anvekar and Venugopal Rajuk	21/04/2015	2027/CHE/2015
75	On device usage indication on USB flash drives	Dinesh Anvekar, Venugopal Rajuk, and Jyotsna Anand	21/04/2015	2028/CHE/2015
76	Spectacles glass wiping sticks within temples	Dinesh Anvekar, Venugopal Rajuk, and Jyotsna Anand	21/04/2015	2029/CHE/2015
77	Cot head side mosquito net	Dinesh Anvekar and Venugopal Rajuk	21/04/2015	2031/CHE/2015
78	Token system for marriage reception	Dinesh Anvekar and Venugopal Rajuk	21/04/2015	2032/CHE/2015
79	Cost meter for photocopying machines	Dinesh Anvekar and Venugopal Rajuk	21/04/2015	2033/CHE/2015
80	Hand drilling machine with attached drill chuck key	Dinesh Anvekar and Venugopal Rajuk	21/04/2015	2034/CHE/2015
81	Wearable blinds for TV viewing	Dinesh Anvekar and Venugopal Rajuk	22/05/2015	2568/CHE/2015
82	Wood saving match sticks and holder	Dinesh Anvekar, Venugopal Rajuk, and Somappa, Raghavendra	22/05/2015	2566/CHE/2015
83	Baggage protection system with RFID in airports	Dinesh Anvekar and Venugopal Rajuk	22/05/2015	2570/CHE/2015
84	Resistance based multiple choice answer sheets and evaluation method	Dinesh Anvekar and Venugopal Rajuk	22/05/2015	2567/CHE/2015

85	LPG level indicating cylinders	Dinesh Anvekar and Venugopal Rajuk	22/05/2015	2569/CHE/2015
86	Secure password entry with hologram	Dinesh Anvekar, Venugopal Rajuk, and Prakash Jayasmitha	22/05/2015	2563/CHE/2015
87	Confirmation of baggage loaded in an aircraft	Dinesh Anvekar and Venugopal Rajuk	22/05/2015	2564/CHE/2015
88	Extraction of chillies from cooked food with magnetic chilli capsules	Dinesh Anvekar and Venugopal Rajuk	22/05/2015	2565/CHE/2015
89	Finger print based coding and decoding of answer scripts	Dinesh Anvekar and Venugopal Rajuk	22/05/2015	2562/CHE/2015
90	Ceiling fan blades wiper	Dinesh Anvekar and Venugopal Rajuk	22/05/2015	2561/CHE/2015
91	Apparatus and method for answering multiple choice questions and evaluating answers by using RFID tags	Dinesh Anvekar and Venugopal Rajuk	23/06/2015	3129/CHE/2015
92	Hand baggage locker system in passenger aircraft	Dinesh Anvekar and Venugopal Rajuk	23/06/2015	3128/CHE/2015
93	Prevention of unintended calling in a smart phone	Dinesh Anvekar and Venugopal Rajuk	23/06/2015	3138/CHE/2015
94	Manual passenger's side outer rear view mirror adjustment through cables	Dinesh Anvekar and Venugopal Rajuk	23/06/2015	3136/CHE/2015
95	System for head mounted device based multiple choice test conduction for candidates sitting in close proximity	Dinesh Anvekar, Venugopal Rajuk, Sanchari Saha, Shobha Poojary, and Shobana Thippeswamy	23/06/2015	3137/CHE/2015
96	Multiple choice test educational toy	Dinesh Anvekar and Venugopal Rajuk	23/06/2015	3134/CHE/2015
97	Solar water heater tube with isolation plate for speeding up water circulation	Dinesh Anvekar and Venugopal Rajuk	23/06/2015	3133/CHE/2015
98	Arm rest on driver-side door in cars	Dinesh Anvekar and Venugopal Rajuk	23/06/2015	3131/CHE/2015
99	System for identification of arriving passengers by pick-up persons in airports	Dinesh Anvekar and Venugopal Rajuk	23/06/2015	3130/CHE/2015
100	Educational toy with color indication for correct answer for a multiple choice question	Dinesh Anvekar and Venugopal Rajuk	23/06/2015	3132/CHE/2015

Appendix 3

List of Publications of Dr. Dinesh K. Anvekar

Book:

D.K.Anvekar and B.S.Sonde 'Electronic Data Converters- Fundamentals and Applications', Tata McGraw-Hill,India,1994

Papers:

1 P. Agrawal, D. K. Anvekar, and B. Narendran, "Channel Management Policies for Handovers in Cellular Networks," Bell Labs Technical Journal, vol. 1, no. 2, Autumn 1996

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18 D.K.Anvekar and S.S.Pradhan,"HCE: A New Channel Exchange Scheme for Handovers in Mobile Cellular Systems," Proceedings of the IEEE International Conference on Personal Wireless Communications, New Delhi,India,Feb.,1996

19 D.K.Anvekar,P.Agrawal,and T.Patel,"Fixed Cellular Rural Networks in Developing Countries: A Performance Evaluation," Proceedings of the IEEE International Conference on Personal Wireless Communications, New Delhi,India,Feb.,1996

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