

## Curriculum Vitae

Dr. Valluri Dhana Raj,  
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India-533201.  
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### **Objective**

To motivate and impart technical knowledge to undergraduate and postgraduate students, and to ensure that they grow ethically and mentally strong to meet global needs with my administrative leadership abilities and vast experience in industry and academia.

### **Personal Profile**

|                  |  |
|------------------|--|
| Name             | : VALLURI DHANA RAJ  |
| Father's Name    | : ARJUNA RAO   |
| Date of Birth    | :14/04/1973  |
| Gender           | :Male  |
| Religion         | : Hindu  |
| Nationality      | : Indian   |
| Languages Known  | : English, Telugu and Hindi  |
| Address (office) | : Professor,<br>Department of Electronics and Communication Engineering<br>Bonam Venkata Chalamayya Engineering College,<br>Odalarevu-533210 |

### **Personal skills:**

- Self-motivated with administrative leadership skills
- Ease to accustom to work in environment
- Good interpersonal and analytical skills.
- Enthusiastic about working independently and with the team.
- Keen Learner, Confident, Punctual & Hard worker

## Technical Profile

| Sl. No | Degree  | College                                     | University | Percentage | Specialization                                  | Year of Passing | Class       |
|--------|---------|---|------------|------------|---|-----------------|-------------|
| 1      | Ph. D   | University College of Engineering, Kakinada | JNTUK      | ---        | Antennas and Arrays, (ECE)                      | 2019            | ----        |
| 2      | M. Tech | JNTU, Kakinada                              | JNTU       | 73.00      | Instrumentation and Control Systems, (ECE)      | 2008            | DISTINCTION |
| 3      | PGDCA   | PACE  | FACT       | 71         | Computer Applications                           | 2000            | DISTINCTION |
| 4      | B. E    | A.U. College of Engineering, Vizag          | AU         | 67.77      | Electronics and Communication Engineering (ECE) | 1995            | FIRSTCLASS  |

## NPTEL certification

- ✓ Antennas
- ✓ Microwave Engineering
- ✓ Microprocessors and Microcontrollers
- ✓ Microprocessors Interfacing (got **Elite Silver**)

## Experience

### ➤ Teaching: 21 years and 8 month

1. Working as Professor from 01/01/2011 to till date in the department of Electronics and Communication Engineering, BVC Engineering College, Odalarevu.
2. Worked as Associate Professor from 01/04/2008 to 31/12/2010 in the department of Electronics and Communication Engineering, BVC Engineering College, Odalarevu
3. Worked as Assistant Professor from 01/07/2002 to 31/03/2008 in the department of Electronics and Communication Engineering, Odalarevu
4. Worked as Lecturer from 01/01/2002 to 30/06/2002 in the department of Electronics and Communication Engineering, BVC Engineering College, Odalarevu
5. Worked as Teaching Assistant from 18/09/2000 to 31/12/2001 in the department of Electronics and Communication Engineering, BVC Engineering College, Odalarevu.

### ➤ Industry: Total: 3 Years 6 months

- i. Worked as an Employee of Instrument technologies at various levels such as PLC Maintenance Engineer, Service Engineer
- ii. Worked in Pivotal Engineering as Service Engineer for 6 months

## Nature of work

- Maintenance of PLCs, MOVs, Pneumatic Systems, Power Conditioning equipment

## **Achievements**

- ❖ *Ratified as Professor by Jawaharlal Nehru Technological University Kakinada in the year April 2022*
- ❖ *Obtained PhD from Jawaharlal Nehru Technological University Kakinada in the year of 2019*
- ❖ *Ratified as Associate Professor by Jawaharlal Nehru Technological University Kakinada in the year May 2010*
- ❖ *Department got accredited by National Board of Accreditation under my Headship*
- ❖ *Organized National Level Conference NECTEC-2K11 as Convener*
- ❖ *Conducted one-day faculty development program on Healthy Research Practices as Coordinator*
- ❖ *Guided more than 50 Under Graduate student projects and 16 Post Graduate student Projects*
- ❖ *Conducted workshop for technical staff as Coordinator*
- ❖ *Conducted several National Level Paper Presentation Contests like RESONANCE-2K8,2K9,2K10,2K11,2K12 as Convener*
- ❖ *Conducted several Hardware Project Exhibitions as coordinator*
- ❖ *Conducted National Level Works Shops WEMA-2K8, WERTS-2K11 and CYBORG-2K12 as Coordinator*
- ❖ *Conducted various activities like student workshops, faculty development programs and one national level conference under IETE forums as College Coordinator*
- ❖ *Conducted various technical events under SELCES(Society of ELelectronics and Communication Engineering Students Association) as President*

## **Roles and Responsibilities**

- ❖ *Acting as Additional Controller of Examinations, Autonomous Exam Section*
- ❖ *Acting as PG Coordinator since 2011*
- ❖ *Acted as HoD for six years(2007-2012)*
- ❖ *Acted as IQAC member(2012-2018)*
- ❖ *Acted as Coordinator for Professional Societies Committee(2007-2018)*
- ❖ *Acted as the department NBA/NAAC Coordinator(2012-2018)*
- ❖ *Acted as the Lab In Charge of Microprocessors and Microcontrollers laboratory(2007-2019)*
- ❖ *Acting as Boys Hostel warden (2016-2018)*
- ❖ *Acting as coordinator for the Anti-Ragging Committee(2008-2021)*
- ❖ *Playing active role in admissions past six years*
- ❖ *Acted as the College Magazine editorial board member(2016-2017)*

- ❖ Acted as College Bus In charge for two academic years(2016-18)
- ❖ Acted as convener for the library committee for one academic year

### **Subjects Taught: at UG and PG level**

- ✓ Radar Systems (UG)
- ✓ Microwave Engineering(UG)
- ✓ Antenna Wave Propagation(UG)
- ✓ Microprocessors and Microcontrollers(UG)
- ✓ Microprocessors Interfacing(UG)
- ✓ Advanced Microprocessors(UG)
- ✓ Microprocessor Applications(UG)
- ✓ Television Engineering(UG)
- ✓ Satellite Communication Engineering(UG)
- ✓ Digital Communications (UG)
- ✓ Embedded Real Time Systems (UG&PG)
- ✓ Embedded Real Time Operation System for (PG)
- ✓ Hardware and Software Co-Design(PG)
- ✓ Digital Data Communications(PG)

### **Professional Body Memberships**

- FIETE                      F-210601
- MIE                         M-144940-5
- MISTE                     LM-34711
- MIAENG                  M-185734

### **Outside Interactions**

#### **❖ Guest lectures & Workshops**

- Guest Lecture given at Regency Institute of Technology, at Yanam on 8<sup>th</sup> Sept, 2012

- Attended to Two-Week Audit Course on “Intellectual Property Rights” during 16<sup>th</sup> -30<sup>th</sup> May 2012 organized by Directorate of research & Development, JNTUK, Kakinada
- Attended to Two-Week Audit Course on “Research Methodologies” at JNTUK, Kakinada, during 1<sup>st</sup>-15<sup>th</sup> May 2012 organized by Directorate of research & Development
- Attended to Agilent Education Workshop at PVP Siddhartha Institute of Technology, Vijayawada on 2<sup>nd</sup> Nov 2012
- Acted as Judge for Paper Presentation held at Pydah College of Engineering, Kakinada, on 10<sup>th</sup> -12<sup>th</sup> March 2012
- Guest Lecture given at Godavari Institute of engineering & Technology, Rajahmundry 13<sup>th</sup> August 2011
- Guest lecture on Radar Systems given in ISTS Women’s Engineering college
- Acted as Guest for National Level Technical Symposium” SRASTHA2KX” on 6-7 August 2010, at Godavari Institute of Engineering & Technology, Rajahmundry
- 5-day workshop on High Impact Teaching Skills, Dale Carnegie training offered by JNTUK, Kakinada in collaboration with Wipro during 4-8 Jan 2010
- A QIP short term course on fundamentals of RF Engineering for Modern Wireless Systems offered by IIT, Kharaghpur in AUCE during 25<sup>th</sup> -31<sup>st</sup> May,2009

#### ❖ **Conferences attended**

- ❖ V. Dhana Raj, A. M. Prasad, G.M.V.Prasad, “Investigation of Broad Band Characteristics of Circularly Polarized Spidron Fractal Slot antenna arrays for Wireless Applications”, ICCIDM-2015, International conference on Computational Intelligence in Data Mining during Dec4-5,2015
- ❖ V. Dhana Raj, A. M. Prasad, M. Satyanarayana, G.M.V.Prasad,” Implementation of Printed micro strip Apollonian Gasket Fractal antenna for Multi Band Wireless Applications”, Signal Processing And Communication Engineering Systems (SPACES), 2015 International Conference on 2-3 Jan. 2015,p.200 - 204 ,publisher IEEE with DOI.10.1109/SPACES.2015.7058248
- ❖ Valluri Dhana Raj, A.M. Prasad, G. M.V Prasad, M. Satyanarayana, “Comparison of radiation attributes of printed micro strip coplanar waveguide fed fractal antennas”, INCMIC-2015, International Conference at AU.,pp.502-508
- ❖ V. Dhana Raj, A.M.Prasad, G.M.V.Prasad, ”Conception and execution of printed micro strip CPW fed Crown triangle Fractal Antenna for UWB Applications”, IJACTA-International Journal of Advanced Computing Techniques and Applications, ISSN : 2321-4546,2015, pp.62-66.(ICCIDM Conference and Journal)

- ❖ V. Dhana Raj, A.M.Prasad, G.M.V.Prasad, M.Satyanarayana, implementation of printed micro strip fractal antennas for wireless applications, presented at Radio Frequency, Antenna Applications and Measurements Symposium” RAMS’14, SRM University, Chennai.
- ❖ A paper entitled “performance Comparison of RCPC in Gaussian and Rayleigh Channels” Presented in International Conference C3IT-09 held on 6<sup>th</sup> and 7<sup>th</sup> Feb 2009 at Academy of Technology, Hogle, Kolkatta

### **FDP/Workshops Attended:**

- ATAL sponsored a one-week Antenna: Design, Fabrication and Measurement elementary level workshop from August 2 to August 6, 2021, at the G B Pant Institute of Engineering and Technology in Pauri Garhwal, Uttarakhand over online mode.
- ATAL sponsored a one-week Wearable Devices & Antenna Technologies for IoT, Mobile and Telemedicine Applications elementary level workshop from July 05 to July 09, 2021, at the Saveetha School of Engineering, Chennai over online mode.
- ATAL sponsored a one-week Emotional Intelligence elementary level workshop from June 7 to June 11, 2021, at the National Institute of Technical Teachers' Training and Research in Chennai over online mode.
- ATAL sponsored a one-week Engineering Technologies (IoT, Robotics & UAV) elementary level workshop from October 12 to October 16, 2020, at the Centre for Development of Advanced Computing, New Delhi over online mode.
- ATAL sponsored a one-week Sensors Technology elementary level workshop from September 21 to September 25, 2020, at the National Institute of Technical Teachers' Training and Research in Chandigarh over online mode.
- One-week faculty development program on IOT based Node MCU by innovative technologies during 04-06-2018 to 09-06-2018.
- Two-day workshop on Advances in Electronics and Communication Engineering at JNTUK during 25-08-2017 and 26-08-2017.
- One Week Faculty Development Programme on “Embedded System development using ARM mbed& Cypress PSoC Platform” conducted by BVC Engineering College, Odalarevu from 1<sup>st</sup> -6<sup>th</sup> March-2017.
- Attended one week faculty development program on antenna designing at Vigyan Jyothi, Hyd. organized by NITW.
- Attended one-week workshop on RF Antennas at NITW
- Two Day national Level Seminar NSETWC-2K16conducted under DST-SERB at BVC Engineering College from 18<sup>th</sup>& 19<sup>th</sup> March-2016.

- A 15-day audit course on Research Methodologies during 1<sup>st</sup> May 2012 to 15<sup>th</sup> May 2012 at JNTUK, Kakinada.
- A 15-day audit course on Intellectual Property Rights and Patents during 16<sup>th</sup> May 2012 to 30<sup>th</sup> May 2012 at JNTUK, Kakinada.
- A 5-day workshop on “High Impact Teaching Skills” Dale Carnegie Training under Mission 10X offered by JNTUK, Kakinada in collaboration with Wipro, during 4<sup>th</sup> to 8<sup>th</sup> Jan 2010 at BVC Engineering, Odalarevu
- A one-day workshop on “RESEARCH METHODOLOGIES” conducted by JNTUK, Kakinada, on 24<sup>th</sup> Nov 2009
- An AICTE/MHRD summer school program on CAD for VLSI design offered by IIT, Kharagpur during 31<sup>st</sup> May to 6<sup>th</sup> June 2009

## List of Publications

| Sl.No | Title of the Paper   | Name Of The Journal/Proceedings   | Volume, Issue No. & Year                        | Page No. | ISSN/ISBN                             |
|-------|--|---|---|----------|---------------------------------------|
| 1.    | YOLO based signal handling based conventional Sign Recognition   | Juni Khyat, UGC CARE group I  | Vol.11,Issue-01,2021                            | 962      | 2278-4362                             |
| 2.    | Breathing aid device to support novel corona (covid-19) patients   | Juni Khyat, UGC CARE group I  | Vol.11,Issue-01,2021                            | 931      | 2278-4362                             |
| 3.    | Design of Pentagonal shaped microstrip patch antenna with slot   | International Journal for recent developments in science and Technology                       | Vol.04,Issue 04,Apr-2020                        | 28       | 2581-4575                             |
| 4.    | OKDFNP: Optimization For Koch Dipole Fractal Antenna Using PSO   | Global Journal Of Engineering Science And Researches  | Vol.6(5)  | 145-154  | 2348 – 8034                           |
| 5.    | Durable Technology with Vacuum Pressure High Speed Smart Water Filter (DTVHS-Water Filter)                                       | Journal of Advanced Research in Embedded System   | Vol 5 No 3 (2018)                               | 11-14    | 2395-3802                             |
| 6.    | Augmented Smart Rice Cooker Technology System (ASRCTS)   | Journal of Advanced Research in Embedded System   | Vol 5 No 3 (2018)                               | 1-3      | 2456-1428                             |
| 7.    | Radiation Performance of Log Periodic Koch Fractal Antenna Array with Different Materials and Thickness                          | Journal of Scientific & Industrial Research(SCI)  | Vol.77(05) [May 2018]                           | 276-281  | 0975-1084 (Online); 0022-4456 (Print) |
| 8.    | GSM Based Auto Secured Car parking System  | International Journal of Scientific development and Research(IJSDR)                           | Vol 1, Issue 9 , Sept-2016                      | 474-477  | 2455-2631                             |
| 9.    | Investigation of Broadband Characteristics of Circularly Polarized Spidron Fractal Slot Antenna Arrays for Wireless Applications | Advances in Intelligent Systems and Computing, Springer                                       | vol 411. Dec 2015                               | 183-200  | 978-81-322-2729-8                     |
| 10.   | Implementation of printed microstrip apollonian gasket fractal antenna for multi band wireless applications                      | International Conference on Signal Processing and Communication Engineering SPACES 2015       | 2-3 Jan2015, 12 March 2015(Added IEEE Explorer) | 200-206  | 978-1-4799-6110-8                     |
| 11.   | Conception and execution of printed microstrip CPW fed Crown triangle Fractal Antenna for UWB Applications                       | International Journal of Advance Computing Technique and Applications (IJACTA)                | Vol.2,issue 1,2014                              | 62-66    | 2321-4546                             |
| 12.   | Effective Data Hiding Method Through Pixel Pair Matching   | International Journal of Science Engineering and Advance Technology, IJSEAT,                  | Vol 2, Issue 11, Nov 2014                       | 657-550  | 2321-6905                             |
| 13.   | Smart online E-voting systems using biometrics   | International Journal of Advance Foundation and Research in Science and Engineering (IJAFRSE) | Vol1,issue 8,Jan 2015                           | 68-75    | 2349-4794 (E)                         |
| 14.   | Arm Based Road and Fire Accidents Detection and Prevention System In Vehicles with GPS   | International Journal Of Informative & Futuristic Research(IJIFR)                             | Volume 2, Issue 3, November 2014                | 732-738  | 2347-1697                             |
| 15.   | Real Time Automatic Number Plate Recognition Using Morphological Algorithm   | International Journal of Science Engineering and Advance Technology, IJSEAT,                  | Vol 3, Issue 4, April 15                        | 110-116  | 2321-6905                             |
| 16.   | Design and Implementation of Printed Micro strip Fractal Antennas for Wireless Applications                                      | IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)                         | .Volume 9, Issue 6, Ver. II (Nov - Dec. 2014)   | 01 to 08 | 2278-8735                             |
| 17.   | Smart online E-voting systems using biometrics   | International Journal of Advance Foundation and Research in Science and Engineering (IJAFRSE) | Vol1,issue 8,Jan 2015                           | 68-75    | 2349-4794 (E)                         |
| 18.   | Wireless Monitoring System Based on ARM7 for Industrial Issues   | International Journal of Research in Computer and Communication technology, IJRCCT.           | Vol 1, Issue 6, November 2012                   | 306-312  | 2278-5841                             |



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|-----|--|---|--|-------------|----------------------|
| 19. | LPC2148 Based Vehicle Monitoring & Control System  | Intl. Journal of Advance & Innovative Research  | Vol. 1, Issue 4, September 2012            | 287-291     | 2278-7844            |
| 20. | Arm Based Advanced Vehicle Monitoring System with Accidental Alert   | International Journal of Advance and Innovative Research.   | Vol. 1, Issue 2, July 2012                 | 333         | 2278-7844            |
| 21. | Advanced Vehicle Positioning and Secured System  | International Journal of Data Warehousing & Mining.   | Vol. 2, Issue 2, May 2012                  | 234         | 1548-3924            |
| 22. | Design and Implementation of home security system with feedback and control of electric gadgetry                 | International Journal of Science Engineering and Advance Technology, IJSEAT                           | Vol.2 Issue3 , March2014                   | 112-115     | 2321-6905            |
| 23. | Wireless Thermoelectric Flow Sensor Using ARM  | International Journal of Advanced Research in Computer Science and Electronics Engineering (IJARCSEE) | Volume 3, Issue 1, January 2014            | 31-34       | 2277 – 9043          |
| 24. | Two way Communication Wireless Sensor Network between Teacher-Student Interaction System based on WI-FI and RFID | International Journal Of Engineering Sciences & Research Technology, IJESRT                           | Volume 2, Issue 12, Dec 2013               | 3683-3685   | 2277-9655            |
| 25. | A Web Based Eco-Friendly Fax Machine Using ARM 9   | International Journal Of Electronics & Communication Technology (IJECT)                               | Vol III Issue Iv, Ver. 2 Oct. To Dec. 2012 | A-529       | 2230 – 7109 (Online) |
| 26. | Wireless Monitoring System Based on ARM7 for Industrial Issues   | International Journal of Research in Computer and Communication technology, IJRCCT.                   | Vol 1, Issue 6, November 2012              | 154         | 2278-5841            |
| 27. | Design of Intelligent Transport Related Issue System Based on ARM7   | International Journal of Research in Computer and Communication technology, IJRCCT.                   | Vol. 1, Issue 4, September 2012            | 155-159     | 2278-5841            |
| 28. | Arm 7 Based Advanced Vehicle Monitoring System with Accidental Alert   | International Journal of Advance and Innovative Research.   | Vol. 1, Issue 2, July 2012                 | 45          | 2278-7844            |
| 29. | Design of Automatic Automobile using CAN Bus   | International Journal of Research in Computer and Communication technology, IJRCCT.                   | Vol 1, Issue 7, December 2012              | 21-30       | 2278-909X            |
| 30. | An Interface of Human and Machine with Eye Blinking  | International Journal of Research in Computer and Communication technology, IJRCCT.                   | Vol 1, Issue 7, December 2012              | 429-434     | 2278-5841            |
| 31. | LPC2148 Based Vehicle Monitoring & Control System  | Intl. Journal of Advance & Innovative Research  | Vol. 1, Issue 4, September 2012            | 287-291     | 2278-7844            |
| 32. | Advanced Vehicle Positioning and Secured System  | International Journal of Data Warehousing & Mining  | Vol. 2, Issue 2, May 2012                  | 155         | 0975-6124            |
| 33. | Semi-Autonomous Robotic vehicle  | International Journal in Computer and Communication Technology, IJRCCT                                | Vol:1,Issue-4,Sep-2012                     | 56          | 2278-5841            |
| 34. | Real-time Monitoring System for Soil Moisture Content Based on Operating System                                  | International Journal of Electronics & Communication Technology                                       | IJECT Vol. 2, SP-1, Dec. 2011              | 247         | 230-7109             |
| 35. | Design and Implementing of serial ports to Ethernet Gateway on Embedded System                                   | International Journal of Electronic & Communication Technology(IJECT)                                 | Vol.2, SP-1, Dec 2011                      | 229         | 2230-7109            |
| 36. | Sub-pattern Technique For Face Recognition   | International Journal of Computer Science & Information Technologies(IJCSIT)                          | Vol.2(5), 2011                             | 2280-283    | 0975-9646            |
| 37. | Temperature Measurement and Equipment Control Using Web Browser  | International Journal of advanced engineering sciences and Technologies(IJAEST)                       | Vol., issue No. 2,2011                     | 258         | 2230-7109            |
| 38. | Mobile Communications for E-Applications   | International Journal of Computer Science & Information Technologies(IJCSIT)                          | Vol.2(5), 2011                             | 2262 - 2266 | 0975-9646            |
| 39. | Automated advanced industrial and Home security using GSM and FPGA   | International Journal of Computer Science & Information Technologies(IJCSIT)                          | Vol. 2 (4) , 2011,                         | 1598-1602   | 0975-9646            |
| 40. | Implementation of INS Using TMS320f2812 of DSP Processor   | International Journal of Computer Applications in Engineering Sciences                                | Vol.1,IssueCNS, July 2011                  | 278-281     | 2231-4946            |

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|-----|---|--|-------------------------------------|-------|-------------|
| 41. | Implementation of Obstacle Avoidance using ZigBee for Omni Directional Mobile Robot   | International Journal of Computer Science & Technology(IJCST)  | Vol.2, SP-1, Dec 2011               | 78    | 2229-4333   |
| 42. | Investigation on Evaluation of RCPC/RCPT Channel coded DS-CDMA systems over AWGN and Rayleigh channels as a case study of cellular Telephony. | International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences(IJ-ETA-ETS ) | Vol.4, Issue1, Jan-June, 2011       | 323   | 0974-3588   |
| 43. | Implementation of a plus shaped fractal antennas for multi-band applications  | International Journal of Computational Engineering Research(IJCER)   | Vol. 04, Issue, 12, December – 2014 | 64-63 | 2250 – 3005 |

### List of R&D Project titles

- ❖ Variety of Fractal Antennas and Arrays and their design
- ❖ Variety of Microstrip antennas and their performance evaluation
- ❖ Wireless Endorsed Robot
- ❖ Real time PC Operated Wireless ROBOT for weather Monitoring
- ❖ Missile Detection and Automatic Destroy
- ❖ Monitoring and Transmission of Heavy Vehicles Parameters using Fixed Cellular Terminal
- ❖ Intelligent Water Serving ROBOT
- ❖ Automatic Fire Extinguisher
- ❖ Highway accident prevention mechanism for Non alterative driver
- ❖ Embedded Railway Track Crack Detection using GSM and GPS
- ❖ Embedded based novel track methodology of physiological parameters using Wi-Fi
- ❖ Wireless Operated Endorsed Robot
- ❖ Advanced Vehicle Security with can protocol for inter ECU Communication
- ❖ Smart bus travel
- ❖ Semi-Autonomous vehicle

Date:

Dr. VALLURI DHANA RAJ

Place: Amalapuram