**Dr. T. REENA RAJ**

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**Mobile No :** 7010954521, 9489286050

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**CAREER OBJECTIVE**

I am ambitious to gain continuous professional development, from one of the leading institutions as a Lecturer. To take up a challenging role, where I can put my Professional Skills into action.

**EDUCATIONAL QUALIFICATIONS**

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| **Course** | Discipline /  **Specialization** | **School /**  **College** | **Board /**  **University** | Year of Passing | **%/ Grade** |
| **PhD** | Wireless Communication | Sathyabama University, Chennai. | Sathyabama university | Apr 2021 | - |
| **M.E** | Embedded System | Sathyabama University, Chennai. | Sathyabama university | 2012 | 7.99 |
| **M.Sc** | Electronics | College of Applied Science,  Vadakkencherry, Palakkad, Kerala. | Calicut University | 2007 | 73 |
| **XII** | Biology  +  Maths stream | Kannadi Higher Secondary School,  Kannadi, Palakkad. | Kerala Board | 2001 | 60 |
| **X** | S.S.L.C | N.S.S High School,  Akathethara, Palakkad. | Kerala Board | 1999 | 74 |

**SOFTWARE SKILLS**

**Language :** Basics in C and C++

**Tools** **:** MATLAB and LABVIEW

**ASSEMBLY LANGUAGE SKILLS**

**Language :** Microprocessor(8085 & 8086), Microcontroller(8051 & PIC) , Arduino, ARM

**AREA OF INTEREST**

* Electronic devices
* Mobile Communication.
* Embedded system.
* Microcontroller and Microprocessors
* Digital Electronics
* Wireless communication
* Electronic Circuits
* Basic Electronics

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| **PROJECT DETAILS** | | |
| **1.**  **GPS based path tracing system .** | | |
| **Graduation** | **:** | M.Sc Electronics |
| **Team Size** | **:** | 1 |
| **Duration** | **:** | 5Months |
| **Project Description** | **:** | GPS based path tracing systemis used for automobiles. The user can store landmarks during his journey. On the return journey the system will calculate the deviation to be taken to the next landmark. |

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| **PROJECT DETAILS** | | |
| **2. Video Encryption using various DCT Transformations** | | |
| **Graduation** | **:** | M.E - Embedded System |
| **Team Size** | **:** | 1 |
| **Duration** | **:** | 6 Months |
| **Project Description** | **:** | The Project describes about the video encryption using 4x4, 8x8 and 16x16 DCT and also analyze the parameters like Data loss, PSNR, Processing time of these transformation. The project is simulated using java. |

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| **PhD Details** | | |
| **STUDIES ON THE CAPACITY ENHANCEMENT TECHNIQUES USING GAME THEORY APPROACH FOR MIMO MC-CDMA SYSTEM** | | |
| **Research Description** | **:** | It describes to enhance the capacity of the MIMO MC-CDMA system in wireless communication for 5 G with the help of Game theory concept. Main aim is to control the power with increasing the number of user and minimize the BER |

**WORKING EXPERIENCE**

* Worked as a Lecturer in College of Applied Science, Vadakkencherry, Palakkad, Kerala from 2008 June to 2009 April.
* Worked as a Lab Instructor in PSN College of Engineering and Technology, Tirunelveli from 2009 October to 2010 July.
* Working as a Assistant professor in PSN College of Engineering and technology, Tirunelveli from 2012 June to till now.

**ACHIEVEMENTS**

* University IIIrd Rank holder in MSc Electronics in University of Calicut.

**PUBLICATION DETAILS**

* Reena Raj, T and Nagarajan, V (2019), “Game Theory Based Modulation Techniques for 5G Generation Cellular System”, Journal on the ***IET Communications (Institution of Engineering and Technology Communications)***,[Vol.13,Issue 19](https://digital-library.theiet.org/content/journals/iet-com/13/19;jsessionid=877tbeltjtnc7.x-iet-live-01), pp.3153 – 3157.
* Reena Raj T, and Nagarajan, V (2018), “Chaotic Sequence Based MC-CDMA for 5G”, ***Journal of Concurrency and Computation: Practice and Experience.***
* Reena Raj, T and Velmurugan, N (2019) “Capacity Enhancement using Game Theory Based Power Assignment for 5G Cellular Network”, ***International Journal of Innovative Technology and Exploring Engineering, Vol. 8, No. 11,   
  pp. 1184–1189.***

**CONFERENCE DETAILS**

* Reena Raj, T, Nagarajan, V and Sittakul, V (2016),“A Game Theoretic Approach for Energy Efficient Modulation in MIMO CDMA”, International Conference on Engineering Science and Innovative Technology (ESIT).
* Reena Raj, T and Nagarajan, V (2016),“Performance Enhancement of MIMO CDMA System using Chaotic Spreading Sequence”, IEEE International Conference on Communications and Signal Processing (ICCSP).

**WORKSHOP DETAILS**

* Attended Five days work shop on ”LABVIEW Workshop” on 20.09.2016 to 24.09.2016 in PSN College of Engineering and Technology, Tirunelveli..
* Attended Three days work shop on ”Sensor Interfacing and Controller Implementation Using LABVIEW” on February 22-24 2017 in Mepco Schlenk Engineering College, Sivakasi.
* Attended Two days work shop on ”Modelling and Closed Loop Control of permanent Magnet Machines using MATLAB” on April 16 & 17 2018 in Mepco Schlenk Engineering College, Sivakasi.
* Attended Three days work shop on ”Role of Virtual Instrumentation in Power Quality Issues using LABVIEW” on April 19-21, 2018 in Mepco Schlenk Engineering College, Sivakasi.
* Attended International Workshop on ”Wireless Sensor Networks for Home and Industrial IoT” on 11.10.2018 in Annamalai University, Tamilnadu..

**CERTIFICATION**

* Served as a reviewer of ***INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS***  for reviewing 1 manuscript in 2019.

**ADDITIONAL ACTIVITIES**

* Exam cell coordinator
* Implant training coordinator
* Industrial visit coordinator
* Magazine coordinator

**PERSONAL SKILLS**

* Ambitious towards Teaching Profession.
* Adaptable to New Technologies.

**PERSONAL DETAILS**

**Name :** T. Reena Raj

**Father’s name :** C. Thankaraj

**Date of Birth :** 04-05-1984

**Sex :** Female

**Marital Status :** Married

**Nationality :** Indian

**Languages Known** **:** English, Tamil, Malayalam and Hindi

**Address**  **:** W/o. S. Hubin Sundar,

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Kanyakumari D.T,

Pin code: 629167

**Contact no :**7010954521,9677510576

**Email ID :** [jinireena@gmail.com](mailto:jinireena@gmail.com)

**DECLARATION**

I hereby declare that the above mentioned information is correct up to my knowledge and belief.

**Place: Kaduvetty**

**Date: 28/02/2022**

**Your** **s sincerely,** 

(**T. REENA RAJ)**