

## ANOOP JACOB

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### OBJECTIVE

To obtain a position to utilize my skills and knowledge that offers professional growth while being resourceful, innovative and flexible.

### RESEARCH INTEREST

Participatory Sensing, Heterogeneous Networking, Wireless Sensor Networks, Ad hoc Networks, Wireless Security, Queuing Network

### EDUCATION

Course	School / College	Discipline / Specialization	Aggregate (% / CGPA)
M. TECH	Amrita Vishwa Vidyapeetham, Kerala, India (affiliated to Amrita University, Tamil Nadu, India)	Wireless Networks and Applications	9.09 CGPA
B. TECH	College Of Engineering Chengannur, Kerala, India (affiliated to Cochin University of Science & Technology, Kerala)	Computer Science & Engg	68.4%
Pre-Degree (XII Standard)	Spring Valley School, Kerala, India (Affiliation : CBSE)	Maths-Computer	85.4%
Matriculation (X Standard)	Spring Valley School, Kerala, India (Affiliation : CBSE)	General	89.4%

### Professional Experience

- Adhoc lecturer in the Department of Computer Science & Engg. in National Institute of Technology Calicut, Kerala, INDIA. (from July 30<sup>th</sup> 2012 to December 17<sup>th</sup> 2012)

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### Master's Degree Program [M.TECH]

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**Specialization:** Wireless Network and Applications

#### Seminars :

- Campus Navigation Aid for Visually Impaired People and Blind
- Wireless License Plate Recognition
- An Intelligent and Adaptable Grid Based Flood Monitoring and Warning System
- Ethical Hacking

**Master Thesis:** Enhanced Emergency communication using MANET, Mobile Sensing and Collaborated Clouds (E<sup>2</sup>M<sup>2</sup>C<sup>2</sup>)

The research provided a Mobile Adhoc NETWORK (MANET) architecture of smartphones for reviving communication in disaster hit areas. In addition, it employed clouds of Social media, mobile devices and Wireless Sensor Network (WSN) operating in a collaborated fashion, which enhanced the efficiency and reliability of the system.

## PUBLICATIONS

1. "Enhanced Emergency Communication using Mobile Sensing and MANET", ACM proceedings of the International Conference on Advances in Computing, Communications and Informatics (ICACCI'12) at Chennai, India
2. "Participatory Sensing Platform to Revive Communication Network in Post-Disaster Scenario", IEEE Xplore in 21st Annual Wireless and Optical Communications Conference WOCC2012 at Taiwan
3. "QoS based Performance Analysis of VoWLAN for Emergency Calls using QualNet", ACM Proceedings of the 1st International Conference on Wireless Technologies for Humanitarian Relief ACWR 2011, India

## ACADEMIC PROJECTS

- Participatory Sensing for Emergency Communication via MANET (Platform: Android)- The project focused on the development of an android application called Amrita App for Emergency Communication (AEC), which was capable of reviving the communication network in disaster scenarios by forming a mobile ad hoc network of smartphones.
- Detection of MAC ID Spoofing in Wireless Network (Language : Perl + Shell Scripting )- A tool was implemented to detect MAC ID spoofing in WLANs and was shown that it achieved accurate attack detection.
- Library Information System (Language: C++)- An automated system was developed which helped in reducing the manual work involved in the traditional system used in libraries.
- Text Extraction in Images (Language: MATLAB)- A generic OCR (Optical Character Recognition) engine was developed which could extract text from scanned documents as well as from posters with complex texture.
- Domestic Timer (Language: mikroC ) – A simulation model of time controller for domestic purposes was made.

## SKILLS

- Computer Languages : C/C++, Java, Perl, NesC(TinyOS)
- Web Design : HTML, CSS , JavaScript, Joomla, Wordpress
- Database : MySQL, SQLite
- Microprocessors : 8085, 8086, PIC 16F877, ARM ( only theory )
- Application Packages : Adobe Photoshop, Flash, Dreamweaver, Adobe Flex, MS Office, Open Office, FTP clients
- Tools : Proteus, LabView, MPLAB, MATLAB, NetBeans, Eclipse, PIC Simulator, LaTeX, QualNet, OMNET++, NS2
- Operating Systems : Linux, Windows, Android

## ACHIEVEMENTS

- Participated and actively volunteered in International Conference on Wireless Technologies for Humanitarian Relief, ACWR 2011
- Technical committee member for SUMMIT 2009, Tech fest organized by CEC
- Active member of FLOSS cell
- Qualified GATE 2012 (Score : 343)

## PERSONAL PROFILE

Date of Birth : 20-04-1988  
Sex : Male  
Father's Name : M. J. Jacob  
Address : Machuveettil,  
Chathamangalam P.O.,  
Calicut, Kerala,  
India - 673601  
Nationality : Indian  
Languages : English, Malayalam, Hindi

## REFERENCES

**1. Dr. Maneesha V. Ramesh**

Director, AMRITA Center for Wireless Networks & Applications  
Director, Amrita Center for International Programs  
Amrita Vishwa Vidyapeetham (AMRITA University)  
Kerala, INDIA

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*(Dr. Maneesha V. Ramesh was my M.Tech dissertation advisor)*

**2. Dr. Sudeep K. S.**

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**3. Prof. K. A. Unnikrishna Menon**

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*(I have attended Prof. Unnikrishna's theory classes and he was in M.Tech dissertation committee)*