CHAITANYA SIVA RAMA KRISHNA KOTA

Course : **M.E.**, Communication Engineering, 2020
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CGPA : 8.2

ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
PG	Communication Engineering	BITS Pilani Hyderabad Campus	BITS Pilani	8.2 CGPA	2020
UG	E.C.E	G.M.R Institute of Technology	JNTU Kakinada	73.69 %	2014
CLASS XII	Maths, Physics and Chemistry	Narayana Junior College	Board of Intermediate Education of Andhra Pradesh	92.4 %	2010
CLASS X	H.S.E	ST.Joseph's English Medium High School	A.P.S.E.B	85.33 %	2008

Subjects / Electives	Mobile and Personal Communication, Advanced Digital Communication, Digital Signal Processing
Technical Proficiency	C Programming, C++, Python, Data Structures and Algorithms, OOP, LTE, HFSS

SUMMER INTERNSHIP / WORK EXPERIENCE

Software Engineer Intern, Samsung R&D Institute, Bangalore **Jan 2020 - Jun 2020**

- Key Areas: **5G**, **LTE**, **NAS (Non Access Stratum),** Python, backend development.
- I worked in Mobile Communication R&D department working on Modem protocols.
- Worked on the back-end development of a tool named ILA (Internal log Analyzer) for analyzing NAS (Non Access Stratum) layer 5G NR logs .
- Worked on a model which is development of a Text Classification model for chatbot related to the internal messenger at Samsung, by using Natural Language Processing.

Software Engineer, Tech Mahindra **Sep 2014 - Jul 2018**

- I have an experience of 3 years and 10 months in support and testing of web applications and in front-end development of web applications.
- Worked in Agile scrum task resolving.

PROJECTS

Confidential data encryption and decryption using dual level security by Cryptography and Steganography - Coding Theory and Practice **Aug 2018 - Nov 2018**

- Developed a cipher algorithm in MATLAB using which the sender encrypts the secret message.
- Implemented LSB Steganography in MATLAB to provide dual security to the secret message text.

Channel estimation in O.F.D.M systems using L.S and M.M.S.E techniques - Mobile and personal communication **Jan 2019 - Apr 2019**

- Developed and simulated L.S (Least Square) and M.M.S.E (Minimum Mean Square) channel estimation algorithms in MATLAB for demodulation of O.F.D.M (Orthogonal Frequency Division Multiplexing) signals.

Digital Communication system design using MATLAB - Advanced Digital Communication **Feb 2019 - Apr 2019**

- Implemented a Digital Communication system in MATLAB with LZW (Lempel–Ziv–Welch) as Source coding, Convolutional Coding as Channel coding and BPSK (Binary Phase Shift Keying) as the modulation scheme.
- Generated characteristics of BER (Bit Error Rate) vs. SNR (Signal to Noise Ratio) when a text file is given as input for the system.

Microstrip Patch Antenna for application in Intelligent Transport Systems - Antenna Design **Jan 2019 - Mar 2019**

- Designed a triangular patch antenna for application in Intelligent Transport Systems Mobile Service band covering 5855-5925 MHz with center frequency of 5.9 GHz, with a good return loss of -34.7917dB and a gain of 6.6 dBi.
- Improved gain of the antenna by placing C-shaped resonators on both sides of the feed line.

Design and analysis of I-shaped M.I.M.O antenna for wireless applications - RF and Microwave Engineering **Aug 2018 - Nov 2018**

- Designed an I-shaped M.I.M.O (Multiple-Input and Multiple-Output) antenna at resonant frequency of 2.57 GHz using the substrate material as FR-4 and reduced mutual coupling.

POSITION OF RESPONSIBILITY

Teaching Assistant - BITS PILANI HYDERABAD CAMPUS **Aug 2018 - May 2019**

- I had worked as a Teaching Assistant under different faculties in our department.

EXTRA CURRICULAR ACTIVITIES

Playing Badminton and Chess

- Playing Badminton increases concentration and reflex action.
- Playing Chess improves memory and problem-solving skills.

AWARDS AND RECOGNITIONS

BEST POSTER AWARD | Department of EEE, BITS Pilani Hyderabad Campus. **Apr 2019**

- The Best poster award is presented to me at ME Poster Presentation conducted at BITS Pilani Hyderabad Campus in April 2019, for my Poster presentation on Research Project which is Microstrip patch Antenna Design for application in Intelligent Transport Systems.

CERTIFICATIONS

CERTIFICATION	CERTIFYING AUTHORITY	DESCRIPTION
Certificate of Participation - Wireless Mobile Communication	Texas Instruments	
Certificate of Participation - Computer Networks	Texas Instruments	
Problem Solving (Basic) Certificate	Hackerrank	It covers basic topics of Data Structures (such as Arrays, Strings) and Algorithms (such as Sorting and Searching).

CONFERENCES AND WORKSHOPS

International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks
Organized by: **IEEE** | Date: **May 2019**
I had a paper publication entitled Microstrip Patch Antenna for Application in Intelligent Transport Systems in TEQIP-III sponsored International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks (IMICPW-2019) organized by the Department of Electronics and Communication Engineering, National Institute of Technology Tiruchirappalli on 22nd to 24th , May 2019.

TEST SCORES

TEST NAME	DATE OF EXAM	SCORE
GATE	Feb 11, 2017	Rank: 6687

I attempted GATE in 2017 and got a rank of 6687 with a score of 479.

LANGUAGES KNOWN

English, Telugu, Hindi