PAVAN KUMAR REDDY MANNE

(+91) 8688232596 ⋄ pavanreddy.manne@gmail.com
F-524 Boys Hostel, IIT Hyderabad, Sangareddy-502205

EDUCATION

Indian Institute of Technology Hyderabad *2014-Present*
Ph.D. in Dept. of Electrical Engineering

Indian Institute of Technology Hyderabad *2018*
M.Tech. in Dept. of Electrical Engineering CGPA=8.1

ACE Engineering College, Ghatkesar *2014*
B.Tech. in Dept. of Electronics and Communications Engineering Percentage: 74.5

Narayana Jr. College, Dilsukhnagar *2010*
M.P.C in Intermediate Percentage: 94.1

Montessor High School, Bhongir *2008*
SSC Percentage: 88

PROFESSIONAL EXPERIENCE

WiSig Networks Pvt. Ltd, Hyderabad 2018-present
Research Engineer (L1-Team)

· Implemented downlink and uplink system level simulator with TM 2/3/4/7/9 modes, wrap-around, power control, HARQ with outer-loop CQI control for full and finite buffer traffic. Further, the Quadriga based 3D channel model is used for the evaluation purposes. Implemented physical downlink control channel for 3GPP allied systems (LTE, NB-IoT, LTE-M1, 5G-NR) and published articles in premier IEEE conferences.

PUBLICATIONS

Pavan Reddy M., Santosh G., Abhinav Kumar, Kiran Kuchi, "Downlink Control Channel Scheduling for 3GPP Narrowband-Iot", *29th IEEE International Conference on Personal, Indoor and Mobile Radio Communications (PIMRC)*, 2018.

Pavan Reddy M., Santosh G., Abhinav Kumar, Kiran Kuchi, "Novel Rate Matching Scheme for Downlink Control Channel in 3GPP Massive Machine Type Communications", *10th International Conference on Communication Systems and Networks (COMSNETS)*, January 2018.

Pavan Reddy M., Santosh G., Abhinav Kumar, Kiran Kuchi, "Improved Physical Downlink Control Channel for 3GPP Massive Machine Type Communications", *Lecture Notes in Computer Science*, December 2018.

AREAS OF INTEREST

- Signal processing for communications
- Implementation of standardized algorithms for physical layer (LTE, 5G-NR)
- Multiple Input and Multiple Output(MIMO), Beam-forming

SKILL SET

Programming Skills	C, python
Software & Tools	MATLAB, AMPL, Latex

REFERENCES

Prof. Kiran Kuchi	Professor, Department of Electrical Engineering, Indian Institute of Technology Hyderabad, email: kkuchi@iith.ac.in
Dr. Abhinav Kumar	Asst. Professor, Department of Electrical Engineering, Indian Institute of Technology Hyderabad, email: abhinavkumar@iith.ac.in
Dr. Sai Dhiraj Amuru	Adjunct Faculty, Department of Electrical Engineering, Indian Institute of Technology Hyderabad, email: asaidhiraj@iith.ac.in

DECLARATION

I hereby declare that all the information given above are true to the best of my knowledge.

Pavan Kumar Reddy Manne