GNANA S. AROCKIARAJ

Steinkaute 4, Zi. A001
61169 Friedberg

+49 151 46992676
gnanasoundari189@gmail.com

Date of birth: June 10, 1992
Nationality: Indian

PROFESSIONAL EXPERIENCE

03/2019 – 09/2019 **Deutsche Telekom, Darmstadt**

Master Thesis: "Advanced High Speed Wireless Network with Terragraph System using mmWave 60-GHz Band for Urban Areas"

End-to-End communications systems test experience; Verification of requirements using MATLAB; Environmental testing and test procedure analysis done with the iBwave design tool

Multiple measurements using Channel Sounder for specific areas. Evaluation of the data obtained regarding reflections in mmWave communication. Use of the Siradel tool's Ray Tracing Simulation output to get accurate reflected predictions in case of Non-Line-of-Sight

Work within a team of designers. Weekly meeting with the partners and customers (e.g. Facebook, Siradel representatives)

09/2018 – 12/2018 **Deutsche Telekom, Darmstadt**

Internship: "Wireless to Home with Terragraph using 60 GHz Band"

Terragraph LOS measurements; Reflections Prediction in 60GHz and Mesh Network Data Visualization by using LiDAR Cyclone 9.3 .RF Network Planning GIS3D

08/2015 – 05/2017 **Impact College of Engineering and Applied Sciences**, India

Assistant Professor

Preparation of lecture scripts. Holding lectures and labs for Network Analysis, Digital Signal Processing, Linear Integrated Circuits, Digital Switching Systems, Digital Communication

ACADEMIC QUALIFICATIONS

10/2017- 11/2019 **Master of Science (M.Sc.) in Information and Communications Eng.**
Technische Hochschule Mittelhessen, Friedberg

Final grade: 2,0 (good) / Specialization: Data Transmission, Wireless Access Technologies, IP Based Networks, IP Protocols and Applications

Projects 1: Implementation of a TCP Client and Server Application using Python and Tkinter
Project 2: Design of an IoT based environmental monitoring system (Arduino device, storage in the IBM cloud, use of WATSON for visualization)

06/2013-07/2015 **Master of Engineering (M.E) in Communication Systems**
Anna University, Tamil Nadu, India

Overall Grade equivalent to 1,6 (23rd rank out of 1153 graduates)

Master Thesis: “Real Time Air Quality Monitoring and Control System”
Air quality monitoring sensors and system designed by Proteus and implemented as real time application by PSpice

08/2009-06/2013 **Bachelor of Engineering (B.E) in Electronics and Communication**
Anna University, Tamil Nadu, India

Bachelor Thesis: “Wireless Black box using GPS tracking for accidental monitoring of vehicles using Verilog/VHDL coding”

TECHNICAL SKILLS AND COMPETENCIES

Programming	Good experience with MATLAB / Simulink and LabView Project in IP Protocols using Python Courses about C, C++, Embedded C
RF Network Planning tools	Intensive use of LiDAR Cyclone 9.3, iBwave and Siradel GIS3D at Deutsche Telekom
Hardware/ PCB Design tools	Arduino, Raspberry Pi, Verilog/ VHDL, PSPICE, Proteus
Microsoft Office	Very good proficiency (used during studies and for teaching purposes)

LANGUAGE PROFICIENCY

English: fluent
German: Daily business communication (TELC B1)

POSITIONS AS STUDENT

12/2017 – 08/2018 **TransMIT GmbH**, Friedberg / Work in the Production Department
Measuring the Fiber’s transmission efficiency and Polishing of Optical Fibers.
Design of different fiber installation using LabVIEW

08/2019 – 11/2019 **Amazon Logistics**, Raunheim / Logistic Assistant. Customer Service
Work in German. Involved daily communication with drivers from various nationalities and background.

SOCIAL ACTIVITIES IN GERMANY

November 2018 Award of **Deutschland Stipendium**. The criteria to obtain this scholarship are excellence in studies and motivation.

March 2018 Guest Speaker, Lions Club, Butzbach
“Chance Geben, Perspecktive schaffen - alternativ”
I was the first female student to have graduated at university level in my village in India. My future plans include sponsoring girls’ education.”

April 2018 Guest Speaker, Rotary Club, Friedberg

(Gnana Soundari A)
Friedberg, 18 March 2020