RENUKA BOWROTHU

3800 SW 34th Street Apt#Z251
Gainesville, Florida (32608).

Email:renu.bowrothu93@gmail.com
Phone No: +1(619)597-9075
LinkedIn: https://www.linkedin.com/in/renuka-bowrothu-a6a923aa

OBJECTIVE:

As a determined and enthusiastic Engineer, seeking for a challenging full time position in Electrical industry that will utilize my skills for mutual growth and benefit.

EDUCATION:

[Aug 2015 - Present] ***M.S. in Electrical & Computer Engineering,*** University of Florida, USA. **CGPA: 3.55/4**

Course work: *Analog IC design, Microwave IC design, Semiconductor IC Fabrication, Wireless Communications, RF circuits and systems, Pattern recognition and Intelligence, Advance antenna systems, Digital Signal Processing and Noise in linear systems.*

[2011- 2015]- ***B.E. in Electronics and Communication*****,** Vasavi College of Engineering, India. **CGPA: 3.7/4**

WORK EXPERIENCE:

Currently, working as Graduate Student Assistant on Antenna design and fabrication in **Interdisciplinary Microsystems Group.**

TECHNICAL SKILLS:

Languages: C, C++, Assembly Language, MATLAB, Python, Verilog HDL.

Design Tools: Ansoft designer, LabVIEW, MATLAB – Simulink, ADS, HFSS, Cadence.

GRADUATE PROJECTS:

[Feb'2016-April'2016] ***Design of RF Doppler Vibrometer [RF Module]***

Tools Used: ADS- Advanced Design System

Designed a trans receiver that can detect vibrations of an object from a distance of 1m satisfying FCC requirements .

[Feb'2016-April'2016] ***Adaptive Interference Cancellation System for WCDMA Networks***

Tools Used: MATLAB

Algorithm for interference cancellation system is implemented, which removes the interference caused by the radio echoes of the coverage antenna at the donor antenna of the repeater.

[Feb'2016-April'2016] ***Face Recognition in Color Images and Comparison with the Data Base***

Tools Used: MATLAB

Database of color images is created and compared with input image. If the difference is above certain defined threshold then the input image is added to the database.

[Oct '2015-Dec '2015] ***Design of Patch antenna array for a monostatic radar operating at 60GHZ***

Tools Used: Ansoft Designer

Designed an array of patch antenna having gain greater than 10dB that fits in an area of 1cmX1cm.

[Sep'2015-Oct'2015] ***Design of 64 point IFFT/FFT QPSK OFDM modulator***

Tools Used: MATLAB

Designed desired OFDM system and symbol error rate is calculated by adjusting the Signal to Noise ratio.

[Nov'2015-Dec'2015] ***Design of Equirriple Filter***

Tools Used: MATLAB

Designed a Equiripple low pass filter with sampling frequency of 10K Sa/Sec, passband edge frequency of f_p=1.5 KHz and stopband edge beginning at f_a=2 KHz with uniform and non-uniform weights.

UNDERGRADUATE PROJECT:

[Jan'2015-May'2015] ***Image Segmentation Using Normalized cuts [FINAL YEAR PROJECT]***

Tools Used: MATLAB

Solved perpetual grouping problem in vision where image is segmented by using normalized cuts which are based on Eigen values.

ACHIEVEMENTS:

2015 Certification from MMSE-Ministry of Micro, Small and Medium Enterprises from **Government of India** on Supply Chain Management and Logistics.

2015 Won 3rd prize in **NEN-National Entrepreneurship Network** competiton-2015, India where led a team of 20 people as a Chief Coordinator.

POSITIONS OF RESPONSIBILITY:

2015 Chief Student Coordinator for the technical Symposium – VCE Acumen.

2013-2015 Member of IETE-Institution of Electronics and Telecommunications Engineers.

2014-2015 Student Coordinator for the Entrepreneurship cell- SWAYAM of VCE.