

# SUNDAR PICHAJ

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## SUMMARY OF QUALIFICATIONS

Possess strong technical and engineering skills in RF and Wireless Engineering and the analytical abilities necessary for designing, developing and testing RF circuits. Gained exposure to key concepts in modern wireless communications by training with major telecom company. Hands on experience working with circuits like oscillators, mixers, amplifiers, RF network analyzer, spectrum analyzer.

## EDUCATION

**University of Illinois at Chicago (UIC)** - Chicago, IL May 2017 (Expected)  
*Master of Science in Electrical and Computer Engineering* GPA: 3.63/4.0

**Vellore Institute of Technology (VIT)** - Vellore, India May 2015  
*Bachelor of Science in Electronic and Communication Engineering* GPA: 3.7/4.0

## TECHNICAL SKILLS

**Hardware:** Amplifiers, Mixers, RF Network Analyzers, RF Filters- SAW, BAW, Spectrum analyzers, Oscilloscopes, Resonant circuits, RF oscillators: PLL, Voltage-controlled oscillator, Transmitters.

**Software:** MATLAB, Simulink, LTSpice, AWR, Labview, FEKO, Altera Quartus, Atalanta (ATPG Tool), Microsoft Word, Excel, PowerPoint, C, C++ and Linux.

## LABORATORY WORK

**RF and Microwave Lab, Electrical and Computer Engineering Department, UIC** February 2016 – Present  
*Research Assistant*

- Conducted experiments using waveguide tees and directional couplers, impedance matching using smith charts, Frequency synthesizer characteristics measurement, S-Parameters and Slotted line measurements.
- Measurements were performed using FieldFox handheld RF and Microwave analyzer.

## INTERNSHIP

**Bharat Sanchar Nigam Limited (BSNL)** - Hyderabad Area, India Oct 2015-Dec 2015  
*Engineering Intern*

- Obtained knowledge on key wireless concepts such as: Digital Switching Principles (PCM Principles, CAS, CCS7 and latest switches in telecom industry), Fiber Optic Communication Principle (Concepts on SDH and DWDM), Mobile communication Principles (GSM, GPRS, EDGE, CDMA, 3G Technologies).
- Gained practical exposure on latest equipment's in telecom such as: Telecom Switch- CDOT, OF Systems- SDH, DWDM, Mobile Equipment- 2G GSM, CDMA, 3G Mobile, Broadband, Networking Equipment, OFC Station, GSM/CDMA Installations.

## ACADEMIC PROJECTS

**Microstrip impedance matching circuit – UIC** Jan. 2017

- Designed and simulated a circuit using FEKO by impedance matching on a micro strip line using single stub tuning method with the help of Smith charts; results were successfully obtained

**Low-pass elliptical filters – UIC** Sept. 2016

- Designed low-pass elliptical filters by means of cascaded microstrip rectangular elements using AWR Microwave Office

## ACHIEVEMENTS

- Ranked 25<sup>th</sup> among 450 students in class of 2015 from VIT
- 1<sup>st</sup> prize in ECE technical quiz in inter-school quiz competition at Audishankara Engineering College 2014
- Placed in top 10 students for ECE RF engineering competition sponsored by IAETSD 2013