

RAJAT E. SINGH

Near St. Mary's Academy, Mission Compound, Saharanpur, U.P. 247001 INDIA
rajatsingh9@rediffmail.com Home Phone: +91 1322730550; Cell Phone:+91 9622013373

Electronics, Telecommunication and Information Technology Engineer

Educational Qualification:

Bachelor of Technology:

I am a fresh graduate of Electronics and Telecommunication Engineering and received my B. Tech. degree in year 2012 from Punjab Technical University (<http://www.ptu.ac.in>), INDIA, with outstanding grades and secured aggregate of 76% marks in four years.

Intermediate/ High School:

I passed my 10+2 grade in year 2008 from Central Board of Secondary Education (<http://cbse.nic.in>), New Delhi, INDIA with good grades.

I completed my 10th standard in year 2006 from J and K. State Board of School Education, INDIA (<http://www.jkbose.co.in>), with outstanding grades and secured 100% marks in mathematics.

Technical Work Compatibility, Expertise and Qualification:

Work Passion:

Looking for a challenging job through which I can sharpen all my skills and knowledge, acquired during my B. Tech. in Electronics and Communication Engineering.

To command various techniques and methodology related to Electronics, Telecommunication Engineering and Information Technology.

To develop, maintain and upgrade cutting edge Technology for Electronics, Telecommunication Engineering and Information Technology with innovative ideas.

Work Performance:

Ready to give my 100% under tremendous work pressure, I understand the importance of deadlines and I know how to execute and accomplish the time bound project.

Good team player, respect positive attitude, work ethics and moral values of colleagues, ready to work with any internationally acclaimed team and no hesitation in accepting any lead role.

Flexible, multitasking and ready to accept all good ideas and suggestions, in best interest of project and organization.

Work Experience, Trainings and Projects:

Received industrial training in PCB designing at RIMT, Mandigobindgarh for one month and project focused on “LED Blinker using IC 555 timer”.

Completed industrial training in sensors and cellular systems (GSM, 3G, 2G, CDMA) at IIM, Jammu (Council of Scientific and Industrial Research- Research Campus), for two months duration and project focused on “Temperature sensors (LM 35), Measurement and their control using LM 324”.

Completed industrial training in computer networking at IIM, Jammu (Council of Scientific and Industrial Research- Research Campus) and DOEACC for six months duration (Dec.2011-June 2012) “Creating a Home Area Network, WAN, LAN for IIM (CSIR), Jammu and SUPERTECH (DOEACC)” and Files, Resource and Application sharing, Changing IP manually and assigning new, Telnet, Net Meeting, Remote Desktop Sharing, Manufacturing (straight through cable, crossover cable), Configure Switch, Router configure.

Work experience on Modulation and Demodulation method and techniques (Amplitude modulation, frequency modulation, phase modulation) using super heterodyne receiver and transmitter and digital modulation like (binary frequency shift keying, phase shift keying, quadrature amplitude modulation, quad binary phase shift keying, minimum phase shift keying) and their demodulation.

Major project on transmission and reception of DTMF (dual tone multi frequency) with the use of Optical FIBER.

Experience in C/C++, JAVA, SQL etc Programming Language from DOEACC Jammu, Trouble Shooting Skills With Computer Hardware/Software Problems and Knowledge of Windows 2000/XP/Vista/7 and Other OS.

Experience with detailed engineering drawings & specification documents (development, modification, and understanding). Command & control circuits with feedback. Data Acquisition Systems (DAS) and related Instrumentation circuit and transducer interfacing. Communications and data transport circuits (including GB Ethernet, Pulse Code Modulation (PCM) signals, IRIG Timing, etc). DC power supply implementation and power distribution. Commercial Off The Shelf (COTS) hardware integration at a system level (Computer chassis, Digital & Analog I/O boards, Network Interface Cards (NIC), PCM simulator/decommutator boards, etc). Hands-on experience with electronic components, wiring/cabling, computer integration, I/O circuit boards, etc. Experience with CAD software usage (AutoCAD, etc). Experience with Radio Frequency (RF) systems design and operation. Knowledge of requirements in EWR-127-1. Experience with RF hardware integration such as antenna & amplifier specification and section, RF link loss calculation, appropriate cable implementation, GPS tracking, flight termination systems, etc. Systems engineering experience

Knowledge of VHDL/VERILOG and SDLC, Also have done Industrial Work like Knurling, Centering etc on Lathe Machine, Soldering, Foundry, Welding, Fitting and Metal sheet work to Create a desired JOB.

Area of Interest:

Not limited but ready to work in any given area of interest.

- (A) Electronic devices and circuit (LED, LCD, PN junction diode, Transistors (PNP, NPN, MOSFET, FET, UJT etc) Amplifiers), Network analysis and synthesis, Electronic Instrumentation (CRO, Transducers, Voltmeters, Electronic Ammeter, Frequency Synthesizer, Oscillators), Digital Electronics (MUX, DEMUX, Half Adder, Full ADDER, Subtractor, Full subtractor, Encoder, Decoder), Linear Integrated Circuits (741 OP amp as an adder, subtractor divider, integrator), Analog Communication System, Digital Communication System, Linear Control Systems, Microprocessor 8086, 8085 and interfacing with 8251, 8279, 8254, 8155, 8257, Microcontroller 8051, Digital Signal Processing, Pulse and Digital Switching Circuit, Microwave and RADAR devices and system, Electromagnetic Field Theory, Antenna Wave Propagation, Wireless Communication, Very Large Scale Integration, Optical Fiber Communication, Computer Networking, Satellite Communication, Filters, Object Oriented Programming, Total Quality Management,
- (B) Computer aided drafting using AutoCAD, MATLAB programming, 8051 microcontroller programming using Keil u vision software.
- (C) Engineering Drawing/Drafting, Environmental Sciences

Description of Personal Details:

Sex: Male

Nationality: Indian

Language Known: Read write and speak English and Hindi fluently; speak and understand Punjabi and Urdu.

Traits: Focused, energetic, athletic, 6 feet two inches height, won lot of awards in track and field events at school and college level.

Hobbies: Playing chess and bodybuilding.

Reference: References or recommendation letter will be provided on demand/need.

Software Skills:

MS Excel, MS outlook, MS Word, Adobe Photoshop, Packet Tracer, MS PowerPoint

Declaration:

I assertively, declare that all the information furnished above are true and correct to the best of my knowledge.

Rajat E. Singh, B. Tech.