

Inderpreet Singh

5- R. B. Duni Chand Road ♦ Amritsar – 143001 ♦ India ♦ (+91) 9779595116 ♦ er.inderpreet@gmail.com
http://Inderpreet.github.io

Career Summary

Embedded Systems Designer and Integrator skilled in end to end solution design. Experienced in rapid prototype development from edge electronic devices to backend logic deployment. Working knowledge of IoT and Cloud technologies coupled with core knowledge of electronics and software concepts rooted from communication fundamentals. Possesses strong problem solving skills and a team player with good interpersonal skills.

Professional Experience/ Projects

SupplyFrame Inc.

Hackaday.com - Contributor-At-Large

- Content Writing For the Online Technology Magazine

Guru Nanak Dev University, Amritsar

Assistant Professor

(July, 2016 – May 2017)

- Teaching and Research

Assistant Professor

(July, 2015 – May 2016)

- Teaching and Research

Assistant Professor

(July, 2013 – May 2014)

- Teaching and research

Rajdeep Info-Techno Pvt. Ltd., Pune

Assistant Project Manager – Electronics

(July, 2012 – May 2013)

- Project Lifecycle Management
- Cost Analysis and Execution Planning
- Team Management and Development Control
- End Customer Delivery and Production Support

Team Lead – Electronics

(October, 2009 – June 2010)

- Team management and production support
- User requirement analysis
- Microcontroller based project development,
- Embedded Research & Documentation,

Development Engineer – Electronics

(April, 2008 – October 2009)

- FPGA and SOPC system development
- Hardware Modeling and Testing
- Documentation and Module Testing

International Institute Of Information and Technology, Pun

Research Assistant – VLSI Lab

(July, 2006 – January, 2008)

- Project work,
- Tool Support for *Cadence First Encounter* and Cell based ASIC Design.

Domain Knowledge and Skills

Programming

- Embedded C, C++,
- NodeJS
- HTML/CSS/JS
- Python 2.7
- BASH
- MongoDB
- SQL(Basics)
- Verilog HDL
- MATLAB
- Java (Basics)
- NI LabView

Design Tools

- Code Composer Studio/Eclipse
- Arduino
- Autodesk Fusion 360
- Cadence OrCAD
- Autodesk Eagle
- Keil uVision 3
- Xilinx ISE
- ModelSim
- LTSpice/PSPice

Hardware(MicroControllers/Processors)

- 8051(EFM8, at89x51, RD2)
- AVR(Atmega Family)
- Arduino
- Intel Galileo
- Intel Edison
- TI MSP430 Family
- Cortex M0(EFM32)
- Cortex M4(CC3200, K64)
- Raspberry Pi(1 & 2)
- Beagle Bone Black
- ESP8266
- CC3100
- eRIC/Xbee/Si4455
- MQTT

Operating Systems/ RTOS

- Linux
- TI RTOS
- RTX51

Instrumentation

- Analog and Digital Storage Oscilloscopes
- Logic Analyzers
- NI PXIe based Vector Signal Transceiver
- MSO/MDO
- DAQ
- DMMs

Protocols

- I2C/TWI
- RS232
- 802.11(Wi-Fi)
- ModBus/RS485
- CAN
- BTLE(4.0)

Documentation and Project Management

- MS Office 2010 onwards
- Adobe Photoshop CS2
- Adobe Premier CS2
- Adobe Illustrator
- MS Project 2010

Educational Qualifications

Ph. D in Microwave Electronic Materials (2013- Till date)

M. Tech in Electronics and Communication Engineering (2010 - 2012)

- Guru Nanak Dev University, University Campus
- CGPA 8.4

B. Tech in Electronics and Communication Engineering (2002 - 2006)

- Amritsar College Of Engineering and Technology affiliated to *Punjab Technical University*
- Percentage 78.12 %

Higher Secondary Education (+1 and +2) (2000 – 2002)

- Khalsa College, Amritsar
- Major: Physics, Chemistry and Mathematics
- Percentage: 60.3%

Matriculation (Indian Certificate for Secondary Education) (till March, 2000)

- St. Francis School, Amritsar
- Percentage: 75%

Other Exams

- GRE (general) : verbal: 410/800, Quant: 740/800, AWA: 4.5/6 (November, 2007)
- IELTS(general) : Listening: 9.0, Reading: 8.5, Writing: 6.5, Speaking: 8.5(January, 2017)

References:

- Dr. Maninder Lal Singh, Deptt. Of Electronics Engineering, Guru Nanak Dev University, Amritsar (mlsingh7@gmail.com)
- Prof. Subrata Ghoshal, Professor, ITM University, Haryana (subrataghoshal@gmail.com)
- Yogesh Dhongade, Director, Rajdeep Info Techo Pvt Ltd. Pune (yogeshd@rajdeepgroup.com)