

# HARSIMRANJIT SINGH GILL

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## Permanent Address:

V.P.O. Sangowal, Tehsil & Distt.

Ludhiana (Punjab)

PIN-141122



## OBJECTIVE

Seeking a teaching position with established college/university where training and skills in active teaching methodologies will be fully utilized in order to provide students with a positive learning experience.

## EXPERIENCE

Name of Employer	Period From - To	Designation
Sri Guru Granth Sahib World University, Fatehgarh Sahib	August 2013 - till working	Assistant Professor
L.C.E.T., Katani Kalan, Ludhiana	August 2011 - July 2013	Assistant Professor
Gosal Electronics Ltd., Ludhiana	August 2008 - July 2009	Production Engineer

## EDUCATIONAL QUALIFICATION

Qualification	Board/University	Institution	Year	Marks
Ph. D (ECE)	PTU, Kapurthala	-	-	Pursuing
M.Tech (ECE)	PTU, Kapurthala	Guru Nanak Dev Engineering College, Ludhiana	2011	63.7%
B.Tech (ECE)	PTU, Kapurthala	L.C.E.T. Katani Kalan, Ludhiana	2008	73.9%
3 YEARS DIPLOMA (ECE)	P.S.B.T.E. & I.T., Chandigarh	Guru Nanak Dev Polytechnic, Ludhiana	2005	64.8%
MATRIC (10 <sup>th</sup> )	C.B.S.E., New Delhi	N.S.P.S., Ludhiana	2002	59.2%

## PROPOSED WORK FOR Ph.D

In the field of "Secure Communication".

## M.Tech - THESIS

I have done thesis in the field of 'Cryptography'. My topic of thesis was "Selection of parameter 'r' in RC5 (w/r/b) algorithm on the basis of prime number".

## RESEARCH GUIDANCE GIVEN

Number of PG Thesis Guided	Submitted	-	5
	Under supervision	-	3

## ACADEMIC PROJECTS

### Self Executed Projects:

1. In M.Tech: - Done a major project in antenna design. The topic of my project was

- “Practical Experiment Performed on Microwave Bench & Antenna Trainer”**. In this, experimentation was done for different types of antennas with the help of antenna trainer for the evaluation of various parameters.
2. **In B.Tech:** - Done a major project on **“Remotely Programmable RTC-Interfaced Microcontroller for Multiple Device Control”**. In this, multiple devices installed at various places can be controlled with real time using remote controller.
  3. **In Diploma:** - **Fire Rescue Application in Rural Areas.**

#### **Supervised Project:**

1. Gesture Recognition system.
2. GSM based theft protection systems.
3. GSM based line follower Robot.
4. QoS Routing based on Genetic Algorithm.
5. Wireless Sensor Networks based Home Automation Systems.

#### **INDUSTRIAL TRAINING**

1. Done six months Industrial training at **PUNJAB COMMUNICATION PVT. LTD., Mohali** on **NETWORKING** from Jan'2008 to Jun'2008.
2. Done six weeks industrial training at **PUNJAB COMMUNICATION PVT. LTD., Mohali** on **PROGRAMMING OF MICRO-CONTROLLER** from Jun'2006 to Aug'2006.
3. Done six weeks training at **C-DAC, GNDEC, Ludhiana** on **TROUBLESHOOTING OF ELECTRONIC DEVICES** from Jun'2004 to Aug'2004.

#### **AREA OF INTEREST**

- Cryptography.
- Multimedia & Wireless Communication.
- Wireless Sensor Networks.
- Microcontrollers.
- Computer Networks.

#### **SEMINAR'S**

Got appreciation in the seminar presented on the topic of **“Recent Advances in Micro-strip Patch Antenna”** held at Guru Nanak Dev Engineering College, Ludhiana on March 2011.

#### **PUBLICATIONS**

1. “Selection of parameter ‘r’ in RC5 algorithm on the basis of prime number” in **International Conference by IEEE on Recent Advances in Engineering and Computational Science**, Chandigarh, Mar. 2014
2. “Reduction of Multiple Access Interference in CDMA by using Improved Minimum Mean Square Error Receiver” in **International Journal of Scientific & Engineering Research**, Vol. 2, Issue 12, Dec. 2011
3. “A New Approach for Function Optimization using Hybrid GA-ANN Algorithm” in **International Journal of Engineering research and Applications**, India, Vol. 2, Issue 2, pp. 386-389, Mar-Apr 2012.
4. “Techniques for PAPR reduction in OFDM System” in **International Journal of Engineering Research and Technology**, India, Vol. 1, Issue 4, June-2012.
5. “Chromatic Dispersion using optical All Pass Filters” in **International Journal of Engineering Research and Development**, Vol. 1, Issue 5, pp. 55-60, June 2012.

6. "Intelligent Cars using RFID Technology" in **International Journal of Scientific and Engineering Research**, France, Vol. 3, Issue 7, pp. 103-106, July 2012.
7. "Advantages, Disadvantages and Applications of Non-linear effects" in Second National Conference on **Recent Advances in Electronics and Communication Technologies (RAECT - 11)** held at Guru Nanak Dev Engineering College, Ludhiana (PB.), Vol. 2, pp. 30, March 2011.
8. "An OCDMA - A Review" in Second National Conference on **Recent Advances in Electronics and Communication Technologies (RAECT - 11)** held at Guru Nanak Dev Engineering College, Ludhiana (PB.), Vol. 2, pp. 57, March 2011.
9. "Review on Blowfish Algorithm" in National Conference on **Emerging Horizons in Science and Technology (EHST-14)** held at Sri Guru Granth Sahib World University, Fatehgarh Sahib, January 2014.
10. "Comparison of Commonly used Block Ciphers" in National Conference on **Emerging Horizons in Science and Technology (EHST-14)** held at Sri Guru Granth Sahib World University, Fatehgarh Sahib, January 2014.
11. "Effectuation of LEACH Protocol" in National Conference on **Emerging Horizons in Science and Technology (EHST-14)** held at Sri Guru Granth Sahib World University, Fatehgarh Sahib, January 2014.
12. "Examining resemblance between different routing protocols in Wireless Sensor Network" in National Conference on **Emerging Horizons in Science and Technology (EHST-14)** held at Sri Guru Granth Sahib World University, Fatehgarh Sahib, January 2014.

#### **BOOKS PUBLISHED**

- "Selection of parameter 'r' in RC5 algorithm", with ISBN No. 978-3-659-21933-7 Germany, LAP Publishers, 2012
- "Eliminate the effect of MAI using different techniques", with ISBN No. 978-3-659-50332-0 Germany, LAP Publishers, 2013
- "Silicon Photonic Computing", with ISBN No. 978-3-659-54657-0 Germany, LAP Publishers, 2014

#### **CONFERENCES ATTENDED**

- International conference on **Recent Advances in Engineering and Computational Science (RAECS), 2014 sponsored by IEEE** held at UIET, Chandigarh in March 2014.
- Second National Conference on **Recent Advances in Electronics and Communication Technologies (RAECT - 11)** held at Guru Nanak Dev Engineering College, Ludhiana (PB.) in March 2011.

#### **EXTRA CURRICULAR ACTIVITIES AND AWARDS**

1. Have been an executive member of the RAECT - 11 National Conference held at Guru Nanak Dev Engineering College, Ludhiana.
2. Participated in various debates at academic level and got appreciation.
3. Certificate of appreciation from various events conducted at SGGSWU, FGS.

#### **SOFTWARE KNOWLEDGE & LANGUAGES**

- Matlab, Opti-system, Opt-sim, Keil Compiler, Assembly languages of 8085, 8086 & 8051, Knowledge of C & C++.

## **INTEREST AND HOBBIES**

- Interacting with people, listening music, playing volleyball, travelling and exploring knowledge.

## **COMPETENCIES**

- Imaginative, Creative, Smart worker with Leadership skills, positive attitude, confident, optimistic and enthusiastic.

## **PERSONAL PROFILE**

Date of birth	September 30, 1986
Age	28 yrs
Gender	Male
Religion	Sikh
Marital status	Married
Nationality	Indian

## **LANGUAGE KNOWN**

English, Punjabi, Hindi.

## **DECLARATION**

I declare that the above information is true and correct to the best of my knowledge and nothing has been concealed or distorted.

**(HARSIMRANJIT SINGH GILL)**