**CURRICULUM VITAE**

**Sunny Kaura**

Mohalla Partiar, Ward Number 8,

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### Career Objective

Seeking a responsible position to utilize my skills and abilities that offers professional growth while being resourceful, innovative and flexible.

### Educational Qualification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Degree/Certificate | College/Institute | Board/University | Year | Percentage/CGPA |
| M.Tech (Thermal Engineering) | National Institute of Technology, Hamirpur | NIT (Deemed University) | 2013–15 | 8.21 |
| B.Tech (Mechanical Engineering) | Chitkara Institute of Engineering and Technology | Punjab Technical University | 2009–13 | 75.71 |
| Intermediate (10 + 2) | Govt. Boys Senior Secondary School, Nurpur, HP | HP Board of School Education | 2009 | 83 |
| High School | Noorpur Public School, Nurpur, HP | C.B.S.E. | 2007 | 81.2 |

### Work Experience

* **Name of the Employee:** Lovely Professional University, Phagwara, Punjab
* **Designation:** Assistant Professor, School of Mechanical Engineering
* **Work Experience:** 20th July, 2015–till date
* **Subjects Taught:** Heat Transfer, Engineering Thermodynamics, Fluid Mechanics and Machinery, IC Engines

### Academic Achievements

* **Qualified GATE examination seven consecutive times** with recent score **610, 576 and 561,596 in GATE-2016 , GATE-2017 , GATE-2018 and GATE-2019, respectively.**
* Recipient of **scholarship** for **academic excellence** in **Class XI** as well as **Class XII.**
* **Recipient of merit certificate from Center Government for securing position among top 50 students in HPBSE XII examination**
* Represented school at **Mathematics Olympiad** in **class IX**.

### Masters Dissertation Details

**Dissertation Title:** Thermal Optimization of Heat Exchanger for Automobile Exhaust Based Thermoelectric Generator System Using CFD Analysis

**Dissertation Details:** The research work involved the designing of series square, plate type and scattered type heat exchanger models along with their simulation over ANSYS Fluent software. The results from the temperature contours and velocity streamlines plot showed that the scattered type heat exchanger model was the most optimized shape for the waste heat recovery purpose in thermoelectric generator (TEG) system among all three designed models.

### Under graduation Major Projects/Summer Training Details

1. Major Projects Details
* **Project Title:** Four Wheel Steering System
* **Projects Details:** The project involved the fabrication of four-wheel steering system such that the rear wheels turned in direction opposite to the front wheels, thereby reducing the turning circle radius at slow speeds and hence making it appropriate for city traffic conditions. Moreover, the automobile required less driver input for any steering movement in situations of all four wheels steering the system.
1. Summer Training Details
* **Training Institute:** Swaraj Engine Limited, Mohali
* **Training Period:** July–December, 2012 **(six months)**
* **Training Title:** Evaluation of Chip Breaker Using Flank Wear and Various Other Parameters
* **Training Details:** The training involved studying the effect of cutting speed, feed, depth of cut and tool flank wear over the chip breakability (length) for ensuring improved control over the chip breakability. The analysis showed that the average chip length, cutting tool speed and tool flank wear were the most significant factors affecting chip breakability.
* **Training Institute:** ITL Sonalika, Hoshiarpur
* **Training Period:** June–July, 2011 **(six weeks)**
* **Training Title:** Study about Tractors and Various Operations Occurring in the Manufacturing and Assembly of Tractors
* **Training Details:** The modules analyzed and studied involved engine assembly along with engine testing.

### Technical Skills

* **Softwares:** ANSYS Fluent, Microsoft Office
* **Favorite Subjects:** Fluid Machinery, Basic Thermodynamics, Fluid Mechanics, IC engines, Refrigeration & Air Conditioning and Heat Transfer.

### Personal Details

* **Mother’s Name:** Mrs. Neena Kaura
* **Father’s Name:** Mr. Suresh Kaura
* **Date of Birth:** 30th October, 1991
* **Gender:** Male
* **Hobbies**
* Interacting with elders and foreigners
* Listening music involving mostly Bollywood songs
* Surfing social networking sites
* **Strengths**
* Hard working and devoted to the assigned task
* Optimistic and sanguine temperament
* **Weakness:** Outspoken sometimes
* **Blood Group:** AB+

I hereby declare that the above-mentioned information is true to the best of my knowledge and belief.

 

(SUNNY KAURA)