

Harsimran Singh

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Academic details

Examination	Institution	Board	Year	Aggregate
MS-(R) (FTS)	Indian Institute of Technology, Kanpur	IIT, Kanpur	2018-Present	7.7/10
B. Tech (ME)	Dept of Mechanical Engineering Punjab Engineering College,Chandigarh	Punjab Engineering College	2014-2018	6.74/10
Class XII	S.G.S Khalsa senior secondary school	P.S.E.B	May, 2014	91.1%
Class X	Sri Anandpur Sahib Model High School	P.S.E.B	May, 2012	87.3%

Academic Projects:

MS(R) Thesis | Thesis Supervisor: *Dr.Avinash Kumar Agarwal*

- Development of GCI Technology for Heavy Duty Engine
- Microscopic and Macroscopic spray characterization of Gasoline and Diesel blends at different fuel injection and ambient pressure

Term Paper/Assignments:

- Got A grade in Turbulence Course
- Developed a temperature control and feedback system for a room on Labview program and working model under guidance of Prof Kamal Poddar

Relevant Course Work:

- Alternative fuels and advances in IC engines
- Engine management system
- Combustion
- Turbulence
- Virtual Instrumentation
- Basics of Automobile Engineering

Training Experience:

- 6 month training in Guru Gobind Singh super thermal power plant
- Industrial trip to PIAGGIO automobiles at Mumbai where we gained knowledge about manufacturing of automotive parts, assembly line and interacted with research and development team of PIAGGIO industries

Projects Undertaken

- Friction stir weld characterization on Aluminum 6061 plates. We tested various mechanical properties of weld joint like Tensile strength, Hardness, Toughness and compared with parent material properties
- Designed a thermal power plant condenser and presented various calculations
- Developed a cheap door opening,closing and locking,unlocking mechanism for physically challenged people (with legs).We successfully made a working model based on same mechanism
- Optimization of Boiler Combustion in thermal power plant

Skills

- Expert in handling engine dyno,various exhaust gas emission analyzer, PDI instrument
- Engine tuning with Open ECU
- Injector Calibration
- Basics of C,C++,AutoCad,LabView,Matlab,CONVERGE
- Basic knowledge of various Microsoft office softwares

Extra-Curricular Activities

- Captain of Cricket Team in 12th standard and won district level competition.
- I was unit leader of NSS at campus. I was active member of project 'ABHAA' based on providing free tuitions to children of Mess employees and security guards.
- Participated in 'Mini Marathon (10km)' organized on Gandhi Jayanti and secured position in top 50
- I am active Blood Donor
- I was member of school Bhangra team. Bhangra is traditional dance form of Punjab state

Hobbies:

- I love to know about behavioral aspect and interesting facts about animals .I had bunch of rabbits before at home
- I like to listen classical instrumental music. In leisure time I like to play violin
- Sometimes I play Badminton .I am also a good swimmer