

Contact

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Top Skills

EDM
Computational Fluid Dynamics
(CFD)
Research

Languages

English (Professional Working)
Hindi (Native or Bilingual)
Punjabi (Native or Bilingual)

Certifications

Insurance Agent, Accident, Health,
Life, Variable Life & Variable
Annuities
Verified International Academic
Qualifications

Honors-Awards

AICTE scholarship for Research

Publications

Effect of machining parameters on
metal removal rate during Electrical
discharge drilling of Al 6061 with
hollow Cu electrode

Analysis of air solar flat plate
collector with induced turbulence

Investigations of electrical discharge
machining of Al6061/14%wt fly-
ash composite with different tool
electrodes

Blind hole drilling of hybrid
aluminium-rice husk ash (ARHA)

Gagandeep Singh Bagga

Mechanical Design/Drafting Engineer at Arrowquip - Canada
Greater Winnipeg Metropolitan Area

Summary

Mechanical design engineer with drafting and CAD experience on SOLIDWORKS and simulation on ANSYS. 3 years industry experience equipped with 2 years experience as Lecturer with a demonstrated and efficient teaching skills at undergraduate level. Strong hold in Thermodynamics and R.A.C applications. Successful completion of Master's in Engineering (M.E.) focused in Thermal Engineering from Thapar Institute of Engineering and Technology.

Published scholar with projects on Advanced materials processing and solar collectors.

<https://wallinside.academia.edu/GaganDeep>

Projects Completed:

Solar air flat plate collector's thermo-hydraulic efficiency with induced turbulence.

Electric discharge drilling of Al 6061 with hollow cu electrode and its effects on material removal rate.

Effects of process parameters on the performance of electrical discharge machining of AISI M42 high speed tool steel alloy.

Blind hole drilling of hybrid aluminium-rice husk ash (ARHA) composite using rotary electro-discharge drilling.

Investigations of electrical discharge machining of Al6061/14%wt fly-ash composite with different tool electrodes

Ongoing project

Ternary and Binary salt thermal stability improvement for passive heating of solar applications.

Experience

Arrowquip International
Mechanical Design Engineer
February 2019 - October 2020 (1 year 9 months)
141 railway avenue, Winnipeg, MB, CA

composite using rotary electro-discharge drilling

Effects of process parameters on the performance of electrical discharge machining of AISI M42 high speed tool steel alloy

Designing/Drafting of various mechanical components and chutes.

Incorporation of Material science and simulation techniques to prevent design from mechanical failure. Using Solidworks composer for product accentuation. Solidworks for drafting/designing products.

SkipTheDishes

courier care specialist

January 2019 - February 2019 (2 months)

136 Market avenue, winnipeg

To provide solutions to customers and couriers for the successful completion of job assigned to couriers. Food skipping north american company.

Manitoba Start

Manitoba Start student

November 2018 - December 2018 (2 months)

271 Portage avenue, Manitoba start, Winnipeg, Canada

New comers classes

Work development classes

MIMIT

Lecturer

October 2016 - September 2018 (2 years)

Malout

I teach the following Subjects :

Basic and Applied Thermodynamics

Mechanical Vibrations

Machine Design

Elements of Mechanical Engineering

Apart from this i am also enrolled in Personality and Development classes of students.

We also Publish journal for students sharing information and knowledge on various aspects of engineering

Rupal Industries

Mechanical Engineer

July 2012 - August 2014 (2 years 2 months)

D-28, Bathinda

Mechanical Engineer with following duties:

Mechanical Press job

Aluminium pattern making

Drilling and threading jobs

Education

Thapar Institute of Engineering and Technology

Master of Technology (M.Tech.), Thermal Engineering · (2014 - 2016)

Rayat & Bahra Institute of Engg. & Biotechnology

Bachelor of Technology - BTech, Mechanical Engineering · (2009 - 2012)

Guru teg bhadur engineering college

Diploma, Mechanical Engineering · (2006 - 2009)