

MEGHAVIN BHATASANA

PURDUE GRADUATE STUDENT

Major: *Mechanical Engineering, Ph.D.*

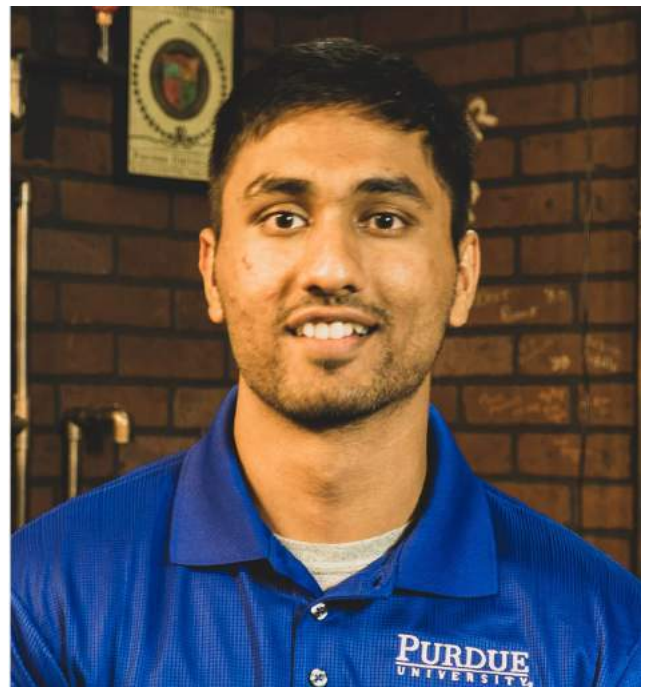
Home Country: *India*

Why did you choose Purdue?

I wanted to pursue a PhD in heat transfer and work in industry after graduation, and Purdue fit the bill really well. The school conducts highly cited and impactful work in applied heat transfer and often has projects funded directly by semiconductor industries. It is also home to the Birck Nanotechnology Center which housed the largest academic cleanroom at the time of its completion. This, along with having a great potential advisor made me confident that Purdue was the right choice for me. In fact, it was the only school I applied to!

Please briefly describe your research:

My research is focused on the thermal management of electronic systems. With rapid advances, heat fluxes in complex systems can get even higher than those in the sun. My project explores the concept of integrating phase change materials (PCM) within the silicon die. Doing so enables effective hotspot mitigation without an increase in package dimensions. Essentially, this can keep your phones from getting hot while keeping it thin. We use machine learning to optimize the geometry and will experimentally demonstrate the concept with a fabricated PCM-integrated chip.



How do you keep yourself organized?

I typically assign days of the week for different tasks, predominantly being academic coursework and research, and stick to strictly. I treat being a graduate student as a full-time employee and often do most of my work in the morning and afternoon and leave the evening for cooking and hobbies. With regards to research, my advisor helps me understand the project needs and ensures that I stay on track.

How do you de-stress in your free time?

I like to exercise, and Purdue has a great recreational facility to do so. I used to participate actively in intramurals but now have started to explore rock climbing at the CoRec.

What are you hoping to do after your life at Purdue?

I am hoping to pursue a career as a research engineer at a semiconductor/automotive firm after graduating.

EXPLORE YOUR OPTIONS

PURDUE GRADUATE PROGRAMS

COLLEGE OF AGRICULTURE

Agricultural and Biological Engineering
Agricultural Economics
Agricultural Sciences Education and Communication
Agronomy
Animal Sciences
Biochemistry
Botany and Plant Pathology
Entomology
Food Science
Forestry and Natural Resources
Horticulture

COLLEGE OF EDUCATION

Curriculum and Instruction
Educational Studies

COLLEGE OF ENGINEERING

Aeronautics and Astronautics
Biomedical Engineering
Chemical Engineering
Civil Engineering
Electrical and Computer Engineering
Engineering Education
Engineering Management
Environmental and Ecological Engineering
Industrial Engineering
Interdisciplinary Engineering
Materials Engineering
Mechanical Engineering
Nuclear Engineering

INTERDISCIPLINARY PROGRAMS

Defense Engineering and Technology
Biomedical Sciences
Ecological Sciences and Engineering
Information Security
Life Science

COLLEGE OF HEALTH AND HUMAN SCIENCES

Consumer Science
Health and Kinesiology
Health Sciences
Hospitality and Tourism Management
Human Development and Family Studies
Nursing
Nutrition
Psychological Sciences
Public Health
Speech, Language, and Hearing Sciences

COLLEGE OF LIBERAL ARTS

American Studies
Anthropology
Art
Communication
Comparative Literature
Design
English
History
Languages and Cultures
Linguistics
Philosophy
Political Sciences
Sociology
Theatre

KRANNERT SCHOOL OF MANAGEMENT

Business Analytics and Information Management
Economics
Finance
Global Supply Chain Management
Management
Marketing
Organizational Behavior and Human Resource Management

COLLEGE OF PHARMACY

Industrial and Physical Pharmacy
Medicinal Chemistry and Molecular Pharmacology
Pharmacy Practice

PURDUE POLYTECHNIC INSTITUTE

Aviation Technology and Management
Computer and Information Technology
Computer Graphics Technology
Construction Management Technology
Engineering Technology
Technology
Technology, Leadership, and Innovation

COLLEGE OF SCIENCE

Biological Sciences
Chemistry
Computer Science
Earth, Atmospheric, and Planetary Sciences
Mathematics
Physics
Statistics

COLLEGE OF VETERINARY MEDICINE

Basic Medical Sciences
Comparative Pathobiology
Veterinary Clinical Sciences

Find more information at purdue.edu/gradschool/academics/graduate-degree-programs



Purdue is centrally located in West Lafayette, Indiana - approximately two hours south of Chicago, Illinois and one hour north of Indianapolis, IN.

Questions? Email gradinfo@purdue.edu

