

# BHAVIN N. VADGAMA

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## OBJECTIVE

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To seek a full-time position in a growing organization where a self-motivated, organized and dependable engineer is needed to lead core operations.

## EDUCATION

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- Fall '01 – Fall '04: Auburn University, Auburn, Alabama, USA  
**Master of Science, Mechanical Engineering**, GPA: 3.75/4.00
- Thesis: Experimental Investigation of Heat Pipes with Micro-fibrous Metal Felt Wick and R134a as a Working fluid.
  - Courses: Boiling & Condensation, Convective Heat Transfer, Diffusive Transport, Numerical Methods in Heat Transfer, Boundary Layer Theory.
- July '96 – May '00: University of Pune, Pune, INDIA  
**Bachelor of Science, Mechanical Engineering**, First Class (equivalent GPA: 3.5/4.0)
- Project: Design and Fabrication of Test Rig for Multi-Cylinder Petrol Engine.
  - Seminar: Traction Control in Automobiles.
  - Courses: Machine Design & Drawing, Theory of Machines, Manufacturing Processes, Strength of Materials, Applied Mechanics, Automobile Engineering.

## WORK EXPERIENCE

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- Fall '01 – Fall '04 Auburn Thermo Fluids Micro Measurements Lab, Auburn University  
**Graduate Research Assistant, Department of Mechanical Engineering**
- Research involved:
    - Developing heat pipes for automotive and electronic applications
    - Material processing for enhancing the wettability of the working fluid
    - Sintering metal powder to create the wick for the heat pipes
  - Developed Aluminum-R134a heat pipe for differential oil cooling and engine oil cooling applications.
  - Developed Copper-R134a heat pipe with copper felt wick.
  - Managed the research laboratory and its resources.
  - Interacted directly with the manufacturers.
- June '00 – June '01: Austin Engineering Company Limited, Junagadh, INDIA  
**Assistant Engineer, Design and Development**
- Designed and developed cylindrical roller bearings according to customer specifications.
  - Designed the tooling for manufacturing of new and developed products.
  - Interacted directly with the customers.

## SKILLS

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- Software: C, C++, FORTRAN, Mathematica, AutoCAD, SolidEDGE, SolidWORKS
- Test Equipment: Varian Helium Leak Detector, Agilent Data Logger
- Languages: Fluency in English, Hindi and Gujarati

## REFERENCES

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Available upon request