

# Vineed Narayanan



## EDUCATION

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Program	Institution	Year of completion
MS and Ph.D. Thermal Engineering	Indian Institute of Technology Madras, Chennai	2017
B Tech in Mechanical	College of Engineering Trivandrum, Thiruvananthapuram	2009

## RESEARCH

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- Refrigeration
- Cryogenic engineering
- Thermal cycle analysis

## PROJECTS

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- MS and Ph.D. Thesis
  - Development of a refrigerator operating with mixtures for superconducting applications.
  - Achieved a lowest temperature of 62.5 K with Mixed refrigerant technology.
- Assistance in ISRO Project.
  - Assisted in the fabrication and testing of a -50°C refrigerator used in a Space Simulation chamber (in IIT Madras laboratory).

## ACADEMIC EXPERIENCE

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- Teaching Assistance
  - ME1100 Thermodynamics (B Tech ME Core) (2 semesters)
  - ME3225 Refrigeration and Air-conditioning (B Tech ME Core) (1 semester)
  - ME6030 Refrigeration and Cryogenics (M Tech ME Core) (2 semesters)
  - ME5003 Process Simulation (B Tech / M Tech ME Core) (1 semester)
- Temporary Faculty in National Institute of Technology Trichy (1 semesters)
  - Refrigeration and Air-Conditioning (B Tech ME Elective) (1 semester)

## PUBLICATIONS

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- **Narayanan, Vineed. and G. Venkatarathnam** (2018). Prediction of Vapour-Liquid and Vapour-Liquid-Liquid equilibria of nitrogen-hydrocarbon mixtures used in J-T refrigerators. *Cryogenics*, **90**, 70-85.
- **Narayanan, Vineed. and G. Venkatarathnam** (2016). Performance of two mixed refrigerant processes providing refrigeration at 70 K. *Cryogenics*, **78**, 66-73.

- **Narayanan, Vineed. and G. Venkatarathnam** (2014). A mixed refrigerant cycle for providing refrigeration below 70 K for superconducting applications. *Indian Journal of Cryogenics*, **39**(1), 43-46.
- **Narayanan, Vineed. and G. Venkatarathnam** (2017). Experimental investigation on mixed refrigerant cryocooler operating at 70 K for cooling high temperature superconductors *IOP Conference Series: Materials Science and Engineering*, **171**, 012073.

## PERSONAL INFORMATION

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Date of Birth	25 <sup>th</sup> June 1987
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