

Adithyan Kannaiyan

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Education

2018 – ... ■ **Master in Mechanical Engineering**, École polytechnique fédérale de Lausanne, Switzerland. *'Thermal Sciences' specialization.*

2014 – 2018 ■ **B. Tech. Mechanical Engineering**, Indian Institute of Technology, Indore, India. *Institute Silver Medal for academic performance.*
GPA: 9.24/10.0

Project Experience

May – July, 2017 ■ **Shape Memory Alloy and Polymer composites for enhanced stiffness**
Nanyang Technological University, Singapore | Supervisor: Dr. Huang Wei Min
Fabricated composites of shape memory alloy (Ni-Ti) and shape memory polymers (EVA, PMMA) in order to improve stiffness characteristics over a range of temperatures. Designed and performed experiments for testing composite strengths.

July – Dec, 2017 ■ **Performance analysis of a thermochemical energy storage device for solar thermal applications**
Bachelor's Thesis, Indian Institute of Technology, Indore, India | Supervisor: Dr. Anil Kumar, IIT Tirupati
Designed an energy storage device utilising manganese chloride and ammonia as the working pair and characterised its performance under laboratory controlled conditions.

Feb – June, 2019 ■ **Integration of a ground source heat pump model in a building energy system design tool**
Semester Project, IPESE | Supervisors: Dr. Francois Marechal, Dr. Paul Stadler
Developed an AMPL model for a ground source heat pump (GSHP) and integrated the model in an existing Mixed Integer Linear Programming (MILP) based design tool that optimizes a building energy system given target parameters.

Skills

Programming	■ MATLAB, Python, R, AMPL, limited experience with EES
Misc.	■ L ^A T _E X, RMarkdown
Relevant coursework	■ Renewable energy, Advanced heat transfer, Advanced energetics, Refrigeration and air conditioning

Awards

2018 ■ **Institute Silver Medal**, Indian Institute of Technology, Indore, awarded for graduating at the top of the Class of 2018, Department of Mechanical Engineering.

2017 ■ Selected for the **NTU-India Connect Research Internship Scholarship Programme**.