Adithyan Kannaiyan

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Education

Master in Mechanical Engineering, École polytechnique fédérale de Lausanne, Switzerland. 'Energy' orientation.

D. 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

C, MATLAB, Python, R

Misc.

AUTOCAD, LATEX RMarkdown, Ansys Fluent

Relevant master's courses

Advanced heat transfer, Renewable energy, Advanced energetics, Twophase flows and heat transfer, Modelling and Optimization of Energy systems

Awards

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.