Adithyan Kannaiyan

10.04.1997 | Coimbatore, India

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41-764425740



Education

2018 - · · ·

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

GPA: 5.16/6.00

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

Feb – June, 2019

■ Integration of a ground source heat pump model in a building energy system design tool

Semester Project, IPESE | Supervisors: Prof. 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.

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.

May - July, 2017

Nanyang Technological University, Singapore | Supervisor: Dr. Huang Wei Min
Fabricated and tested composites of shape memory alloy (Ni-Ti) and shape memory
polymers (EVA, PMMA) for strength over a range of temperatures.

Skills

Programming

MATLAB, Python, R, AMPL

Misc.

■ LATEX, RMarkdown

Relevant coursework

■ Renewable energy, Engines and fuel cells, Advanced energetics, Modelling and optimization of energy systems

Language competencies

■ Strong proficiencies in English and Tamil, fluent Hindi, conversational French (DELF A2 level)

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.