

SANJYOT VARADE

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OBJECTIVE

Seeking an internship opportunity beginning summer of 2018.

EDUCATION

Master of Science – Mechanical Engineering [3.556/4] 2017-2019

North Carolina State University, Raleigh, NC

Coursework: HVAC, Advanced Convection, Product Design, Fluid Dynamics of Combustion, Heat Transfer, Advanced Engineering Mathematics.

Bachelor of Engineering – Mechanical Engineering [73.33 % (GPA equivalent 3.8)] 2013-2017

MAEER's MIT College of Engineering, University of Pune (Now Savitribai Phule Pune University)

TECHNICAL EXPERIENCE

Eco PRT – North Carolina State University Dec 2017– Present

- This project is about designing and constructing an eco friendly automated public transit vehicle in order to commute between different locations in an around the campus of NCSU.
- Guided by Prof Seth Hollar, I have been given the responsibility of sizing and designing an HVAC system for this vehicle.

Major Project – S.M. Enterprises Aug 2016– May 2017

- Designed a Special Purpose Machine for cleaning of roads.
- Collected data regarding types of road pollutants which cause detrimental impacts on living beings.
- Created a suction device which is installed under a bus, which can run on renewable energy.
- This device is capable of collecting and storing road pollutants, thus aiming at reduction of road pollution.
- The collected road pollutants can then be disposed off safely once the storage is full.

Seminar – Heat Transfer with Nanofluids: May 2016

- Studied heat transfer enhancement with nanofluids, by understanding the different heat transfer mechanisms associated with various types of nanofluids.
- Presented a technical paper on association between behavioral change in nanoparticles with changing parameters of nanofluids

Internship – Thermax Pvt. Ltd Dec 2015

- Studied control systems in boilers
- Analyzed piping diagrams
- Understood the general working of a boiler power plant.

SOFTWARE SKILLS

FEA packages: ANSYS mechanical

CAD packages: Creo Parametric, AutoCAD

Programming: MATLAB (College Certified Course)

LEADERSHIP AND ACTIVITIES

- Current student member of Team ASHRAE, Triangle Chapter.
- Proficient in French and German Languages (Level A2).
- Worked as design team leader for college annual magazine.
- Worked as a Stop-motion Animator for creating advertising content for commercial purposes