

# ANVAY JOSHI

Mobile: +1 919 523 9280 Email: ajoshi7@ncsu.edu LinkedIn- <https://www.linkedin.com/in/anvay-joshi/>

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<b>EDUCATION</b>	<b>NORTH CAROLINA STATE UNIVERSITY, RALEIGH, NORTH CAROLINA</b> Master's in mechanical engineering GPA 3.89/4	AUG 2018 - AUG 2020 (EXPECTED)
	<b>FR. C. RODRIGUES INSTITUTE OF TECHNOLOGY, VASHI, INDIA</b> Bachelor of Engineering – Mechanical Engineering GPA 3.5/4	JUNE 2014 - JUNE 2018
<b>EXPERIENCE</b>	<b>FACILITIES DIVISION (Building Maintenance &amp; Operations), NCSU, Raleigh, NC</b> • Responsible for testing of smoke dampers throughout DH Hill Library, NCSU	JAN 2019 - PRESENT
	<b>GODREJ &amp; BOYCE Mfg. Co. Ltd., Maharashtra, India</b> • Facilitated installation of centralized AC (HVAC) • Got familiarized with the production of process equipment namely heat exchangers and high-pressure vessels • Assisted in heat load calculations and collecting daily data along with ensuring smooth functioning of plans	JUNE 2017
	<b>BARC (Bhabha Atomic Research Centre), Mumbai, India</b> • Worked in Fuel Reprocessing Division. • Acquainted with Plutonium Plant activities, different machines and equipment like pumps, compressors, boilers and heat exchangers • Studied the HVAC system of the chiller based plant	JUNE 2016
	<b>INDIAN RAILWAYS, Mumbai, India</b> • Underwent plant Training and conversant with overhauling of coaches of trains	DEC 2015
<b>PROJECTS</b>	• Analysis of a Packaged Rooftop Unit HVAC system with and without a heat pump for an apartment building in Miami, FL and Chicago, IL with comparison between different building configurations and outer structures using EnergyPlus, OpenStudio and SketchUp • Designed a HVAC system for IT building given by Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) which included heat load calculations, suggesting methods to reduce heat load and improve efficiency • Design and fabrication of a thermo-acoustic cooling setup which achieved cooling effect of 4°C • Development of application and website for quality control in conventional steel plants for Grand Finale of Smart India Hackathon 2017	
<b>PUBLICATION</b>	• “Optimization of Air Engine Power Output for Varying Design Parameter Values” in International Research Journal of Engineering and Technology (IRJET) - Volume 4, Issue 10 (e-ISSN: 2395-0056)	
<b>CO-CURRICULARS</b>	• Student member of the Triangle Chapter of ASHRAE in Raleigh and International Building Performance Simulation Association • Team member of the college BAJA team that took part in Virtual BAJA SAEINDIA 2016	
<b>EXTRA-CURRICULARS</b>	• Part of the Mechanical Engineering Students Association (MESA) magazine committee • Documentation Head of “SAMVAAD 2k17”, a debate competition at FCRIT, Vashi	
<b>COMPUTER SKILLS</b>	• Software – ENERGY PLUS, OPENSTUDIO, SKETCHUP, AUTODESK AUTOCAD, INVENTOR, FUSION 360, SOLIDWORKS, ANSYS APDL, MAPLE • Programming – HTML, C++	