RAHNEESH MUKKIL

Gender: Male

Analyst - DESL Delhi

M.Tech - NIT Trichy

Current location: Delhi

Language fluency: English, Hindi, Malayalam

Date of Birth: 14/01/1995

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Work experience

Project Analyst: Development Environergy Services Ltd. Oct, 2021 - Present

I was involved in the following projects:

- Implementation of an islandwide solid waste management initiatives in Jamaica, where I actively contributed to the development of an integrated solid waste management (ISWM) business model. This comprehensive model encompassed various aspects such as technical, social, financial, economic, and environmental evaluations of waste-to-energy facilities in Jamaica.
- Verified the feasibility study conducted by IFC in Uganda for a Waste-to-Energy (WtE) project. Developed the project configuration and contributed to financial analysis.
- Proposed anaerobic digestion as a sustainable solution for managing the major waste generated in Belize, particularly from Sargassum and wood sources.
- Assessment of construction and demolition waste generated in PCMC, Pune. The study include forecast of C&D waste for another 5 years.
- Assessment of feedstock for BioCNG plants in various parts of Haryana, Punjab, Uttarpradesh and Madhya Pradesh. This project focuses on the development of renewable energy sources in India.

Education qualification

Degree/ Examination	Year of Passing	School/Institute	Board/University	Percentage / CGPA
M.Tech (Thermal Power Engineering)	2021	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli	8.77
B.Tech (Mechanical Engineering)	2018	College of Engineering Trivandrum, Trivandrum	University of Kerala	8.61
Class XII	2013	Govt. Rajah's Higher Secondary School, Kottakkal	Kerala State Board	94.83
Class X	2011	I.K.T Higher Secondary School, Cherukulamba	Kerala State Board	98.75

Project experience from academics

➔ **PG Project – Investigated rewetting phenomenon in DC casting** *Jan 2021 - May 2021*

- Investigate rewetting phenomenon in DC casting of aluminum using FEM.
- Conduct thermal modeling in MATLAB and compare with experimental results to understand water ejection.

➔ **PG Project - Peridynamics for Solidification** *Sep 2020-Dec 2020*

- Analyze solidification of aluminum in 1D using peridynamics methodology.
- Identify solid or liquid state of nodes in aluminum bar/sheet using MATLAB and plot temperature vs. time graphs.

➔ **UG Project-Anti-toppling Mechanism for boat** *Mar 2017-May 2018*

- Prevent boat toppling by incorporating air columns on both sides.
- Utilize a programmable gyroscopic sensor to measure the boat's angle of inclination and activate the anti-toppling mechanism.
- Implement a telescopic arm and air columns on a 3-meter long boat to prevent toppling beyond 20 degrees from the vertical.

Area of interest

- Heat Transfer
- Thermodynamics
- Energy Systems

Technical skills

- Programming Languages : C, Java, HTML, CSS, JavaScript, JQuery
- Engineering Software : Pro - E, AutoCAD
- Other Skills : QGIS tool, Microsoft Office, Google workspace

Academic achievements

- Presented 'Laser-Hybrid Welding' seminar at the undergraduate level in 2017.
- Developed Theo Jansen walking leg model for Drishti in March 2017.

Extracurricular activities / Hobbies / Interest

- Served as a tutor for Bala-Bhavan High school students at the College of Engineering Trivandrum from 2016 to 2018
- Interests: long-distance running and stock market trading
- Hobbies : Outdoor sport activities and reading