



Narayan Kumar

GRADUATE STUDENT IN CIVIL AND ENVIRONMENTAL ENGINEERING AT UNIVERSITY OF DELAWARE ·
400 Wollaston Ave, F07, Ivy Hall Apartments, Newark, DE 19711, United States
☎ (+33) 780821702 | ✉ narayank@udel.edu | 📱 narayan-kumar-5a222315b/

Research Interests

- Sediment Transport Phenomena, Nearshore Wave Breaking, Computational Fluid Dynamics.
- Volume of Fluid (VOF) type Surface wave modeling, Finite volume Method

Education

University of Delaware

Newark, USA

PH.D. IN CIVIL AND ENVIRONMENTAL ENGINEERING WITH MAJOR IN COASTAL ENGINEERING

Aug.2022 - Aug 2027

- Specialized courses: Coastal Process, Ocean Fluid Dynamics, Intermediate Engineering Mathematics, Seminar
- Research Area: CFD simulation of nearshore wave breaking and sediment transport processes. Developing a two-phase model for sediment transport SedFoam coupled with Volume of fluid (VOF) type surface wave model to simulate wave-structure interaction and in the future, for swash zone processes.

Ecole Centrale Nantes

Nantes, France

MSC IN MARINE TECHNOLOGY SPECIALISED IN HYDRODYNAMICS FOR OCEAN ENGINEERING

Sep.2021 - June 2022

- Specialized courses: Fluid Mechanics, Marine hydrodynamics, Computational Fluid Dynamics, Energetics & Propulsion, Continuum Mechanics, Algorithmics for Engineering Modelling, Numerical Methods, Vibrations

National Institute of Technology

Agartala, India

BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING

July 2012 - June 2016

- Overall CGPA: 8.85 out of 10.0
- Specialised courses: Fluid dynamics, Applied Mathematics, Applied Physics, Strength of Materials, Thermodynamics, I.C. Engines, Heat & Transfer, Thermal Power Plant, Compressible Flow & Jet Propulsion, Machine Design, ..
- Centralized pumping System and Rain water harvesting in NIT Agartala Campus under Prof Dr. Swapan Bhaumik.
- Secured funding for two environmental R&D sponsored projects for Study and investigation of the effect of greenhouse in drying perforated bricks from Institution Of Engineers.

Work/Research Experience

Subros Limited

Noida, India

SENIOR ENGINEER: PRODUCTION ENGINEERING

July 2016 - Sep. 2021

- Responsible for Process Planning & Process Engineering for related functions, Technical Specification build up, Equipment/Vendor Selection & Evaluation, RFQ, Quotation, Techno Commercial comparison & participation in purchase/Capex process.
- Problem-solving on current potential issues.
- Capacity Planning & enhancement to meet present/future requirement. Compliance Control for management policies & procedures (IATF, TS, EMS & OHSAS, Statuary, Financial & Legal)

Engineering Staff College of India (ESCI)

Hyderabad, India

SUMMER INTERN

June. 2015 - July. 2015

- Worked on 3D printing project of Rapid prototyping based on Fused deposition modeling.

Hindustan Shipyard Limited (HSL)

Visakhapatnam, India

SUMMER INTERN

June. 2014 - July. 2014

- Understand various stages involved in manufacturing of Ship including the search for future possibilities that would lead to enhancement in the manufacturing process and outfit engineering.

Industrial/Academic Projects

Project Leader

Subros Limited, Noida (India)

PRODUCTION CAPABILITY DEVELOPMENT FOR HVAC PLASTICS PARTS

2017 - 18

- Process Planning & Process Engineering for plastics parts development
- Technical Specification build up for Injection Moulding Machines, Equipment/ Vendor Selection & Evaluation, RFQ, Quotation, Techno Commercial comparison & participation in purchase /Capex process.
- Problem solving on current potential issues, Capacity Planning & enhancement to meet present/future requirement.

Project Leader

Subros Limited, Noida (India)

LOCALIZATION OF AUTOMOTIVE HEAT EXCHANGER-CHILD PARTS-DENSO JAPAN TO DNKI BANGALORE

2017 - 20

- Process Planning & Process Engineering for heat exchanger development.
- Technical Specification build up for Machines, Equipment/Vendor Selection & Evaluation, RFQ, Quotation, Techno Commercial comparison & participation in purchase /Capex process.
- Problem solving on current potential issues, Capacity Planning & enhancement to meet present/future requirement.
- Achieved Cost Saving of INR 218.8 millions.

Project Leader

Subros Limited, Noida (India)

AUTOMOTIVE HEAT EXCHANGER - SURFACE TREATMENT PROCESS CYCLE TIME REDUCTION -CAPACITY ENHANCEMENT

2019 - 21

- Cycle Time Study & Sub Process wise CT study.
- Proposed Plan with maker to reduce CT of Sub process without compensating the Parts Quality.
- MUDA identification, elimination & Transfer Time reduction b/w all the tanks
- Waiting time of tank reduction Drying oven Time reduction DNHA-guided Chemical conversation CT reduction and trial Product Quality validation with change process validation -Reduction of CT 24 Sec to 21.5 Sec

Honors & Awards

- Awarded Merit Holder from CBSE for scoring perfect 100/100 in Social Science and 99/100 in Science.
- Annual Management Recognition from Subros Limited for in-house Production Capability Development Plastic Line Set up.
- First Engineering Graduate of the economically backwards Community of Village Panchayat.
- Secured 3rd position in College level Essay Writing competition at NIT Agartala
- Selected for Regional level IET India Scholarship 2015
- Selected for Regional level science congress in Jawahar Navodaya Vidyalaya, Hazaribagh (Jharkhand)
- Selected for Cluster level Poem Recitation competition in Jawahar Navodaya Vidyalaya, Latehar (Jharkhand)
- Six Sigma Yellow and White Belt Certification

Skills

Programmings	MATLAB, Python, C/C++, JAVA, FORTRAN
Softwares	AutoCAD, Abaqus, Solidworks, NX, Star CCM+, OpenFOAM, Fine-Marine (NUMECA)
Languages	French (A1), English (C2), Hindi, Japanese
Personal Skills	Critical Thinker, Curious, Self Starter, Adaptable, Flexible, Preserving, Leadership, Communication, Hard-Working
Managements Tools	SAP-PP and MM Module, AQWIMS, PLM

Training & Workshops

2022	MIT, Introduction to Computer Science and Programming Using Python	Virtual
2022	freeCodeCamp.org, Statistics for data Science	Virtual
2022	ACADGUILD, Statistics Using Python	Virtual
2022	University College of London, The 3rd UCL OpenFOAM Workshop	Virtual
2021	NUMECA International, CFD Online Course 2021	Virtual

Extracurricular Activity

NIT Agartala

Agartala, India

EVENT COORDINATOR

2014-2015

- Robotics event "CONTRAPTION" held in "AAYAM-2014" and "ADAVAITAM-2015"

NIT Agartala

Agartala, India

STUDENT COORDINATOR

28th Nov- 29th Nov 2014

- Workshop "RELIABILITY ENGINEERING AND MANAGEMENT" organised by NIT Agartala and sponsored by TEQIP -II

The Institution of Engineers (India)

Agartala, India

STUDENT REPRESENTATIVE

2012-2016

- Conduct multiple IEI's seminar and workshops.

Corporate Fitness Freak

HALF MARATHON RUNNER

- Participated in the 50+ Marathon run.

Rotary Noida Blood Bank& AIIMS Delhi

BLOOD DONOR

- Regular Blood Donor & volunteer during Blood Donation Camps.

New Delhi, India

2017-2021

New Delhi, India

2017-2021