PRASHANT KUMAR

Process Engineer

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PROFILE SUMMARY:

Detail oriented Water Engineer with 5+ years of experience and a zest for solving complex problems using outcome-based approach. Have experience in water treatment system project planning and construction oversight of India's largest 20 MLD Tannery commoneffluent treatment project in Kanpur. Actively contributed in design review and provided support during project construction phase.

PROFESSIONAL EXPERIENCE:

Designation : Graduate Engineer – Oct/2019 to Current
Employer- Tamilnadu Water Investment Co Ltd,
Client: National Mission for Clean Ganga
Project Components -

1. **20 MLD**TanneryCommon Effluent Treatment Plant (CETP)
2. **900 KLD** Common Chrome Recovery Unit (CCRU)
3. **200 KLD**Zero Liquid Discharge(ZLD) Plant
4. **30 Kms**Collection and Conveyance System(C&C)

- Worked with Project Manager for monitoring of 20 MLD CETP, 900 KLD CCRU & Pilot ZLD project during design and construction phases.
- Carried out primary treatment units design analysis in 400 member industries and suggesteddesign changes.
- Assisted Process Engineer in reviewing Basic Engineering Package, preliminary designs, planning and other relevant documents.
- Interpreted plans and specifications to support construction manager during project implementation.
- Monitored construction, equipment installation and inspections.
- Coordinated projects by working with other engineers, contractors and regulatory agencies.
- Created reports for daily, weekly and monthly reporting.
- Attended stakeholders meetings and events to address questions and explain project details.
- Prepared standard reports and documentation to communicate results to senior management.
- Participated in site visits, helping to survey ongoing and planned installations.
- Prepared bid proposals under supervision of senior engineers.

Designation: Environmental Consultant – Nov/2018 to Sep/2019
Employer- AmorFarm Agriproducts LLP

- Worked on process scheme to improve energy efficiency and introduced recycling schemes in dairy processing plant.
- Supervised design of systems processes and proposed cleaner technology equipment to control, manage and remediate water, air and soil pollution.
- Analyzed historical inspection data to determine pollution and contamination levels entering into ETP and suggested various measures for successful operation of ETP.

Designation: Research Assistant– Apr/2018 to Oct/2018
Employer- Harcourt Butler Technical University,

Project- Inspection of gross polluting Industries in Ganga main Stem.

- Inspected around 100 GPIs (gross polluting industries) like Textile, Sugar Industries, Tanneries and Slaughter Houses.
- The vast research data was analyzed using systematic tools and implemented representative graphs and charts highlighting results for presentations.
- Maintained and calibrated various types of lab equipment.
- Worked with various Principal Investigators to coordinate qualitative research.
- Performed statistical, qualitative and quantitative analysis for various water and material samples.

Graduate Engineer Trainee– Jun/2015 to Jul/2016
Employer- Kanvij Enviro Pvt. Ltd

- Collected water samples from various sites to test alkalinity, hardness and residual levels.
- Consulted with customers on technical issues to achieve optimal water treatment solutions for ETPs.
- Suggested treatment methodologies, Equipment sizing for modular ETP's, SoPs

Research Assistant– Nov/2013 to Apr/2015
Employer- Wrig Nanosystems Pvt. Ltd,

Project- Development of biosensor for blood hemoglobin measurement.

- Worked with team to develop indigenous Hemoglobin Testing Device.
- Developed product to operate medical hardware and software used in completion of diverse experiments.
- Collaborated with multidisciplinary specialists to research and develop possible solutions to address issues such as V.Off detection, False Interpretation etc.
- Resolved data and recorded discrepancies with actionable corrective solution for blood draining protocol.

EDUCATIONAL QUALIFICATION:

M. Tech in Biochemical Engineering (2016-2018)

- Harcourt Butler Technical University, Kanpur
- Major Project: Microbial synthesis of silver nanoparticles using fungus *Aspergillus terreus.*

B. Tech in Biotechnology (2009-2013)

- Uttar Pradesh Technical University, Lucknow
- Major Project: Wastewater Treatment using Anaerobic Digestion

RESEARCH PAPER PUBLISHED/PAPER PRERSENTED:

- Prashant Kumar et al., 2016, Development and Quality Evaluation of Yoghurt fortified with fruit juices. IJERT, Volume 05, Issue 3.

- Conference paper presented on Heavy metal removal using bio-sorption at Biofuturity-2018, BU Jhansi.
- Conference paper presented on Microbial synthesis of laccase and it's industrial applications at INCON-MFPA, BHU South Campus.

MANAGEMENT SKILLS:

- I have a forward-thinking and strategic thinking attitude that allows me to complete assigned tasks efficiently.
- Collaborated with interdisciplinary experts to meet milestones on time, demonstrating teamwork abilities.
- Previously, while working with various stakeholders, I had to make important decisions on my own and thus developed strong decision-making skills.
- I have analytical skills that allow me to break down information into smaller pieces in order to make sound decisions.
- Worked in a fast-paced environment and delivered deliverables on time, demonstrating my time management skills.
- I have a strong grasp on soft skills, allowing me to complete assigned tasks with efficiency and precision.
- While working on several assignments, I frequently have to relocate to a new position and adapt to the workplace accordingly, involving adaptability.

SOFT SKILLS:

Environment Modeling	:	**ArcGIS, Qual2k**
Programming Language	:	**C, Python**
Design Package	:	**SewerGem, AutoCad**

DECLARATION:

I hereby declare that the above-mentioned information is correct to the best of my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Date: 05-09-2022
Place: New Delhi

PRASHANT KUMAR