

ASHI SHARMA

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EDUCATION

New York University-Tandon School of Engineering, NY

Master of Science in Environmental Engineering

May, 2024

GPA: 4.0/4.0

Shiv Nadar University, Uttar Pradesh, India

Bachelor of Technology in Chemical Engineering

May, 2022

Distinction, Dean's List recipient

GPA: 8.75/10

SKILLS & KNOWLEDGE DOMAINS

- Computer Tools: AutoCAD, ArcGIS, EPANET, SQL, Aspen Plus, BIOVIA MS, MS Office(Word, Excel, Access and PowerPoint)
- Programming Languages: C, MATLAB, Python
- Fluent Languages: English, French, Hindi

Knowledge Domains: Engineering Design, NEPA Studies, Environmental Impact Assessment, Environmental Systems Management, Sustainable Development, RCRA/CERCLA/CWA Studies, ISO 14001 & 29 CFR Regulations, Waste Management, Water & Wastewater treatment, Water Management, Water Resources, Project Management, Technical Report Writing, Handling large Data Sets, Research and Data Analysis, Fluid mechanics, Transport Phenomenon, Thermodynamics, Engineering Design

INTERNSHIPS

New York University IT-Operations Technology Services and Support(OTSS)

Aug, 2022-Present

Student Business Analyst

- Responsible for redesigning and managing NYU's Capital Projects and Facilities valued around \$100 million in construction projects, and \$60 million in outstanding maintenance projects using *AutoCAD*
- Implementing user centered documentation practices to update the NYU Space data systems using mapping processes, resulting in a prominent 20% increase in data accuracy.

Gas Authority of India (Pata) Plant- GAIL, India

July, 2021 – Sept, 2021

Project Intern

- Constructed detailed report on Gas Compressor Unit(GCU)-2 used by GAIL to produce 45,000 TPA of Ethylene (99.95%), using Data collection, manipulation and visualization techniques.
- Identified and researched the functioning of all the base parts in GCU: report outcomes utilized for future projects

Indraprastha Gas Limited (IGL), New Delhi (IND)

Nov 2020 - Feb 2021

Business Development Intern

- Conceptualized and evaluated the infrastructure of Liquefied Natural Gas (LNG) System for future prospects of LNG as a fuel in heavy truck systems.
- Analyzed and identified the advantages of LNG as a heavy vehicle fuel over CNG and Diesel including 2.4 times more energy per DGE, 55% less fuel costs, lower emissions; using data visualization tools, presentations and discussions.
- Project outcomes provided insights into the growth opportunities in LNG sector to IGL and the Indian government, and informed strategic decision-making for its development.

High Polymer Labs Additives Limited, India

June 2019 – July 2020

Product Research Intern

- Researched methodologies to alter Polyethylene structure and decrease its non-biodegradability using various Oxo-Biodegradable Additives and catalysts.
- Engineered properties and effect of the additives on environment.

ACADEMIC PROJECTS

Environmental Impact Assessment

- Reviewed and analyzed the EIS of 175 Park Avenue, currently sites the Grand Hyatt Hotel, NY
- Prepared EIS for Development of Sustainable Housing Systems in Peekskill, New York which consisted of Scoping, Baseline Studies, Impact Analysis, Consequences and Mitigation for Traffic, Noise and Air Quality for proposed project

Environmental Systems Management

- Drafted Request For Proposal(RFP) of solution for Water supply issue at the Remote section of Kodiak Island
- Delivered a comprehensive pipe network distribution system for the site using EPANET, suggesting pipe material changes, modifications in pipe diameter, length etc.

Development and Procurement of Bio-Polymer based edible Films using 3D printer technology

- Molecular modeling studies performed to finalize Pectin among 63 Bio-film bases using BIOVIA MS by Dassault Systemes. Grant of INR 60,000 provided by university for research and project awarded
- Assembled and modified the Creality Ender 3 (FDM type) to introduce an extruder nozzle for procurement

CERTIFICATIONS

- Six Sigma Yellow belt Certification by the IICHE (Indian Institute of Chemical Engineers)
- Learning AutoCAD(2021) by LinkedIn learning
- Introduction to ESG: Environmental, Social, and Governance by LinkedIn Learning
- Navigating Environmental Sustainability- A Guide for Leaders by LinkedIn Learning
- Delf B1-French Language Diploma issued by L'Institut français and the French Embassy in India