



SHANTANU ANAND

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EDUCATION

| Year | Degree/Exam | Institute | CGPA/Marks |
|------|---------------------------------------|---------------------------------|------------|
| 2022 | M.TECH | IIT Kharagpur | 9.76 / 10 |
| 2019 | B.TECH | IEST Shibpur | 7.75 / 10 |
| 2014 | Senior School Certificate Examination | DAV Public School Talwandi Kota | 86.8% |
| 2012 | Secondary School Examination | SL DAV Public School Khagaria | 9.8 / 10 |

EXPERIENCE

Mithinga Waste Management Private Limited, Patna

[Jul' 2021 to Aug' 2021]

- Understood Decentralised Waste Management System and Management of Compost Units.
- Execution of Waste Segregation Awareness Programme with Households and Societies in collaboration with Patna Municipal Corporation.

East Central Railways, Patna

[Dec' 2017 to Jan' 2018]

- Exposure to the construction of RCC Water Tank, Escalator, Lift, PRS Building and Tourist Building

BRBCL (Bhartiya Rail Bijlee Company Ltd.) Nabinagar | A JV of NTPC Limited and Ministry of Railways

[Jun' 2017]

- Exposure to Piling work, BBS (Bar Bending Schedule), Batching Plant, In-situ Tests to Monitor Quality of Construction Materials and Road Construction in Power Plant and Township.

PROJECTS

M.Tech Thesis | Environmental Impact Evaluation of Health-Care Waste Management Practices considering

COVID-19 Pandemic | Supervisor- Prof Brajesh K. Dubey and Prof. Bharath H. Aithal

[On-going]

- Identification of the change in the pattern and composition of bio-medical waste generation during the COVID-19 pandemic.
- Determination of the environmental impact of Bio-medical waste management using **Life Cycle Assessment**.
- Identification of the environmental resilient method for Management of Bio-medical waste.

B.Tech Final Year Project | Biological Degradation of Different types of Plastic by Larvae of *Tenebrio Molitor*

Supervisor- Prof Anirban Gupta

[Jan'2019 to May 2019]

- Reduction of plastic pollution through biological degradation of plastics by using larvae of *Tenebrio Molitors*.
- Regression to determine the quantity of the larvae of *Tenebrio Molitors* required for degradation of plastics in a specific time period.

Course Project | Planning and Designing of Bus Rapid Transit System for the Nagpur City

[Jan'2021 to Apr'2021]

- Identification of the need of a Bus Rapid Transit System in Nagpur City considering existing traffic scenarios.
- Planning and Designing of Bus Rapid Transit System for Nagpur City considering ITDP standards.

Course Project | Financial and Benefit Analysis of IoT Integrated Smart Bike Sharing

[Aug'2020 to Nov' 2020]

- Development of a Financial Feasibility Analysis of the implementation of Smart Bike Sharing Facility and its effect in long term.

PUBLICATIONS

50th Urban Affairs Association (UAA) 2022 Conference | Anand, S., Cheela, VRS., Dubey, B., Aithal, BH. (2022)

Environmental Impact Evaluation of Health-Care Waste Management Practices considering COVID-19 Pandemic

(To be Presented)

European Geoscience Union (EGU 2022) General Assembly | Narendr, A., Anand, S., Aithal, BH., Das S. (2022)

An Experimental Approach for Developing a Building Damage Matrix for the Flood-affected Vernacular Housing Typology

(To be Presented)

CERTIFICATIONS

- Programming for Everybody (Getting Started with Python), offered by University of Michigan | Coursera [Jan'2022]
- Computer Aided Training Programme & Certification on **AutoCAD** | The CAD Institute, Patna [May 2016 to Jul'2016]
- Software Training & Certification on **STAAD Pro.** | CTTC, Bhubaneswar | Ministry of MSME [Dec'2016]

SKILLS AND EXPERTISE

- Programming Language:** C | Python
- Statistical Software:** R | SPSS
- GIS Software:** QGIS | GrassGIS

- Software:** MySQL | MS Projects | AutoCAD | STAAD Pro. | EASETECH | ENVI_MET
- Microsoft Office:** MS Word | MS Excel | MS PowerPoint
- Familiar with:** Machine Learning (SVM) | Tableau

AWARDS AND ACHIEVEMENTS

Professor Prabodh Chandra Mitra Memorial Award 2019

- Recipient of Best UG final year Project | Civil Engineering Department | IEST Shibpur

POSITIONS OF RESPONSIBILITY

Department Representative | Career Development Centre | IIT Kharagpur

[Oct'2020 - Jan'2021]

- Worked with a team of **30** colleagues and **17** Student Placement Coordinators to smoothly coordinate pre- placement talks, recruitment tests and final interviews of different companies for placement and internship of session 2020-21.
- Collaborated with different departments to compile an extensive list of the companies to be approached for placement.
- Conducted the **12 days** placement process, managed **1000+** offers under **8 days** in coordination with the Placement Coordinators.

Teaching Assistant | KS60001 | Introduction to Sthapatya Vastu, Nirman Vidya and Arthashastra [Aug'2021-Dec'2021]

Teaching Assistant | ID60017 | Environmental Infrastructure Management

[On-going]

Treasurer | Society for Creative Arts and Green Environment (SCAGE) | IEST Shibpur

[Aug'2017 to Jul'2018]

- Handled financial account of SCAGE for session 2017-18.

RELEVANT COURSEWORK

Environmental Infrastructure Management | Simulation Laboratory | Project Engineering and Management | Environmental Engineering | Industrial Water Pollution Control | Solid Waste Management | Waste Water Management | Waste Water Treatment | Water Supply System | Quantitative Methods for Decision Making | RS, GIS and Image Processing | Planning and Management of Transportation Facilities | Retrofitting and Rehabilitation of Infrastructure | Financing Infrastructure Projects

EXTRA CURRICULAR ACTIVITIES

- Secured **3rd** Position in “**Design Idea Competition**” organised by RMSoEE, IIT Kharagpur [2016]
- **Robotics**- Secured **1st** Position in **DIY 4.1**, Fresher’s Manual Robotics Event at IEST Shibpur [2016]
- **Workshop Co-Ordinator** | Industrial Visit & Training Program | Bharath Auto Solution | Bridge Design [2016]
- **Games**- Badminton and Table Tennis