CHAITANYA KUKUTLA
(253) 347-3778
Chaitanya.nitb@gmail.com

EDUCATION

Masters of Science in Civil &Environmental Engineering, New Mexico State University, Las Cruces, NM

Expected Graduation date: July 2015, GPA: 3.96

Bachelor of Technology in Civil Engineering

National Institute of Technology, Bhopal, MP, May 2011, GPA: 3.56

WORK EXPERIENCE

Execution Engineer, Indiabulls Power Limited, Maharashtra, India
July 2011 – March 2013

- Served as the project engineer in a thermal power plant of 2700 MW capacity
- Carried out the construction of heavy foundations in BTG (Boiler, Turbine, and Generator) area.
    - ♦ Executed foundations for Boiler, ESP, Station building floor slabs and TG columns
    - ♦ Executed the works of Primary Air (PA) and Forced Draft (FD) fan foundations
- Prepared Bar bending schedules, construction programme and biannual reports for planning and commissioning
- Conducted tests on soil samples and concrete blocks in laboratory for analyzing the compaction and strength
- Executed the interior infrastructure work in the main control building (with an area of more than 3000 sq. m)

Intern, SEW INFRASTRUCTURE LTD, Madhya Pradesh, India

- Assisted and learned to execute the work sequence in construction project relating to heavy structures such as bridges, abutments and express way paths
- Supervised bar bending of steel used for building structures
- Coordinated with contractors to clarify structural drawings
- Directed in marking layouts for excavation and issuing joint measurement records for soil strata

GRADUATE COURSE WORK AT NEW MEXICO STATE UNIVERSITY

- Surface Water Quality Modeling
- Unit Processes/ Operation of Wastewater Treatment
- Unit Processes/ Operation of Water Treatment
- Design of Municipal and Hazardous Waste Landfills
- Chemical Theories of Environmental Engineering
- Evaluation of Engineering data

ACADEMIC PROJECTS & RESEARCH

New Mexico State University, Environmental sustainability (Re-inventing the Nation's Urban Water Infrastructure)
August 2013 – present

- Research goal is to reduce the cost involved in treating waste waters, and extract energy from the wastewaters
- Produce bio fuel from algae using waste waters by simultaneously removing nutrients from waste waters
- Study the growth rates , productivity and the net energy produced using different algal species
- Study on expanding the research to pilot scale from laboratory level
- Emphasizing on energy free harvesting techniques of micro algae

New Mexico State University, Design Projects

- Evaluated unit process of Las Cruces waste water treatment plant and redesigned the equalization tank and bio filter for projected population with an estimation of Energy requirement.
- Designed Landfill Drainage system for Municipal waste treatment
- Studied the design of Conventional surface Water treatment plant
- Design of an anaerobic digestion unit for a Brewery waste

Maulana Azad National Institute of Technology, Fluid Mechanics & Water Resource Engineering
January 2011 – May 2011

- Studied the existing design of spillway, crest profile and energy dissipater at Mahi river dam and proposed the efficient design by using the existing design data and the working profiles

TEACHING EXPERIENCE

Young Scholar program sponsored by ReNUWIt

June 2014

- Mentored high school students in 2014 summer under the Young Scholars program. Provided practical research training on treatment of Urban waste water streams.

SKILLS

- Proficient in carrying out laboratory experiments relating to civil and environmental fields
- Experienced in different harvesting techniques of microalgae used in Biofuel production
- Proficient in reading civil and structural drawings
- Trained in preparing bar bending schedule and planning report
- Experienced in executing on site construction work
- Basic knowledge of AutoCAD, Adobe Photoshop, Microsoft Office

CERTIFICATIONS & MEMBERSHIP

- President, Indian Student Association, New Mexico State University, Las Cruces, NM 2014
- Coordinator, resources team for RIPPLE, the technical and cultural fest of MANIT, Bhopal, India 2009
- Founder and member, 'THE EMINENCE' first monthly newsletter in MANIT, Bhopal, India 2008
- Founder and member, EWB, India (Engineers Without Border) in MANIT, Bhopal, India 2008
- Holder of National Cadet Corps (NCC) 'A' certificate 'A' grade, Hyderabad, India 2004

JOURNAL ARTICLES

About to submit:

- C Kukutla, F Montelya, T Muppaneni, N Nirmalakhandan*, P Cooke, S Deng; "*Improving Energy Recovery from Microalgae via Bioflocculation followed by Hydrothermal Processing*"

In preparation:

- C Kukutla, N Nirmalakhandan; "*Review on Harvesting Microalgae and proposing cost efficient ways*"

PRESENTATIONS

5th Annual challenge week, Cranefield University, UK

July 2014 Project- STREAM (Re-Inventing the Nation's Urban water Infrastructure)

- Presented a poster on Energetic Comparison of Current vs. Emerging technologies of Harvesting Microalgae

New Mexico Academy of Science Research Symposium, NM EPSCOR, Albuquerque, New Mexico, USA

- Presented a poster on Evaluation of cost effective harvesting technology to make Algal systems economical which one the best graduate poster award