

RAHUL PARAB

• 711 Belva Dr. #39 Vicksburg, MS 43606 • Ph: (419) 283 1858 • E-mail: rparab24@yahoo.com

Objective

To seek a challenging and growth oriented full time position as a civil engineer

Education

- **MS in Civil Engineering, University of Toledo, Ohio** (Cumulative GPA 3.93/4.0) - **May 2003**
- **BE in Civil Engineering, University of Mumbai, India** (First class) - **June 2001**

Profile

- Qualified **EIT** professional with over 7 months of solid hands on experience in energy industry
- 1.5 years experience in watershed & groundwater modeling, water and air quality assessment
- Proficient in GIS, hydrologic and hydraulic as well as dispersion and risk modeling using EPA and US Army Corp of Engineers models
- Good grasp of regulatory, permitting and compliance issues such as **Clean Air Act, Clean Water Act** and **FEMA**
- Excellent interpersonal and technical writing skills

Professional Work Experience

Civil Engineer, LeTourneau Inc. Vicksburg, Mississippi, **July 2003 – Present**

- Assist in design, planning and oversight of Jack up oil rig construction
- Responsible for carrying out field survey for suitable locations of cranes for lifting purposes
- Responsible for reviewing geo-technical reports for site preparation and maintaining river levels data for Mississippi River
- Assist in preparing monthly progress report and other documentation for Project Manager
- Assist in addressing environmental and safety issues within the construction yard

Academic Work Experience

Research Assistant, Department of Civil Engineering, University of Toledo, **Jan 2002 – May2003**

A University of Toledo funded research project “Modeling the Maumee River Watershed for Sustainable Development”

- Developed and validated a working watershed model using **BASINS** and **AERMOD** model for Upper Auglaize River basin to predict the sediment, nutrient and flow discharges as well as atmospheric deposition of pollutants
- Studied the impact of land use changes on water quality using **SWAT** and **QUAL2E** models
- Carried out an independent study on **HEC-HMS** and **HEC-RAS** models
- Assisted in preparing proposal for “Lucas County All Natural Hazards Mitigation Plan” in accordance with the regulations of the Federal Disaster Mitigation Act of 2000 (DMA2K), FEMA, the State of Ohio Emergency Management Agency (OEMA) and Lucas County

Related Projects

- Masters Thesis entitled “Development of a Watershed Model for Upper Auglaize River Basin”
- Groundwater Modeling of Base Borden site by Groundwater Modeling System (GMS)
- Determining Surface Runoff and Discharge Locations integrating SCS Curve Number Runoff Method for Fulton County using GIS
- Undergraduate project on “Design of Pile Foundations” using Simplistic approach
- Final year undergraduate project “Assessment of Human Exposure to Respirable Particulates in Mumbai, India”

Computer Skills

- Software Packages: AUTOCAD 2002, MS Access, Project 2000, Frontpage 2000, MS Office
- Environmental Models: BASINS 3.0, SWAT, PLOAD, HSPF, QUAL2E, AERMOD, GMS
- GIS packages: ArcView GIS 3.2, ArcGIS 8.3, ARC/INFO
- Languages & Operating Systems: C, HTML, Windows NT, 2000 and UNIX

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Publication/Presentation

- M. Benedict, M. Palmer, **R. Parab**, J. Gottgens, and K. Czajkowski, 2003, *Linking water quality and satellite-derived land use data in the Upper-Auglaize Basin, Ohio: Contrasting trends from the early-1970s with the late-1990s and testing management implications using a multipurpose environmental analysis system*, SWS Annual Conference, New Orleans.
- Student poster and paper by **R. Parab**, A. Heydinger, A. Kumar, and M. A. Abraham, 2002 "A Pilot Study to Estimate Application of Atrazine on Areas near Auglaize River using AERMOD/BASINS", Ohio Air Pollution Research Symposium, paper no. OS -02-26.
- **Rahul Parab**, Michael Palmer, Dong-Shik Kim and Ashok Kumar, 2003, *Simulation of atrazine discharge in the Auglaize watershed using satellite-generated images*, Bulletin of Environmental Contamination and Toxicology, in print

Relevant Coursework

Graduate level: Geographic Information Systems, Groundwater Modeling, Dispersion and Risk Modeling, GIS Applications, Industrial Ventilation and Indoor Air Quality.

Undergraduate level: Environmental Engineering, Irrigation Engineering, Applied Hydraulics, Advanced Foundation Engineering, Soil Dynamics, Transportation Engineering, Construction and Planning Management.

Memberships

- Member of American Society for Civil Engineers (ASCE)
- Member of American Geophysical Union (AGU)