

PRASANTH N. TANIKELLA – E.I.T

400 N River Rd, Apt # 608, West Lafayette, IN – 47906 • ptanikel@purdue.edu • Ph: (765)337-7929

OBJECTIVE

Candidate with an excellent analytical and technical background, seeking a full time engineering position that encourages innovative solutions to challenging engineering problems

EDUCATION

Purdue University, West Lafayette, Indiana August 2009 – May 2011
Master of Science-Civil Engineering, **Major:** Structural Engineering **GPA: 4.0/4.0**
Related Courses: Structural Dynamics, Advanced Structural Mechanics, Numerical Techniques, Finite Element Analysis, Earthquake Engineering, Advanced Design of Reinforced Concrete Structures, Advanced Steel Structures, Computing for Engineering and Science

Purdue University, West Lafayette, Indiana August 2007 – August 2009
Master of Science-Civil Engineering, **Major:** Materials Engineering **GPA: 3.97/4.0**
Related Courses: Fundamental of Steel Corrosion in Concrete, Properties and Production of Concrete, Roadway and Pavement Design, Bituminous Materials, Experimental Methods in Construction Materials, Advanced Concrete and Aggregates, Simulation and Characterization of Composite Materials, Statistical Methods in Engineering, Applied Regression Analysis

Indian Institute of Technology Madras, India August 2003 – July 2007
Bachelor of Technology, **Major:** Civil Engineering **Minor:** Operations Research **GPA: 7.68/10**
Related Courses: Concrete Technology, Maintenance and Rehabilitation of Constructed Facilities, Materials of Construction, Structural Analysis, Advanced Design of Concrete Structures, Mechanics of Materials, Design of Steel Structures, Probability Methods in Civil Engineering

EXPERIENCE

Researcher, Purdue University August 2009 – May 2010

- Application of model reduction techniques for analysis of non-linear responses of large structures under seismic loading, as a part of the project funded by the National Science Foundation (NSF)
- Developing a robust model reduction technique for non-linear response analysis for buildings in dynamic loading

Teaching Assistant, Purdue University January 2011 – April 2011

- Currently assisting in teaching a course “Structural Analysis II”, a senior undergraduate course involving advanced analysis concepts (responsibilities include teaching, grading and holding office hours for a group of 90 students)

Researcher, Purdue University May 2009 – December 2009

- Conducted exhaustive tests on “Grancrete”, a quick-setting pavement repair material, for its performance related to fresh and hardened concrete properties and its durability characteristics, as a part of the project funded by Indiana Department of Transportation (INDOT)

Researcher, Purdue University August 2007 – August 2009

- Developed an experimental design and built statistical models for predicting the hydration characteristics of ternary cementitious binder systems comprising of cement and two different fly ashes as a part of the project funded by INDOT
- Published a technical paper titled, “Incorporating Physical and Chemical Characteristics of Fly Ash in Statistical Modeling of Binder Properties” at the “Second International Conference on Sustainable Materials and Technologies”, Ancona, Italy, 2010

Teaching Assistant, Purdue University

August 2008 – December 2008

- Taught a laboratory class ‘Engineering Materials’, an undergraduate fundamental mechanics and materials course (responsibilities included teaching, demonstrating labs and grading)

Researcher

July 2006 - July 2007

Building Technology and Construction Management Division, IIT Madras

- Investigated the application of the ultrasonic pulse velocity technique to estimate the orientation of fibers due to flow in self-compacting fiber reinforced concrete
- Published a paper titled, “On the Distribution of Fibers in Self Compacting Concrete” at the “7th International RILEM Symposium on Fiber Reinforced Concrete: Design and Applications”, BEFIB 2008, Chennai, India

Internship, Universitat Polyècnica de Catalunya, Barcelona, Spain

May 2006 - July 2006

- Investigated the orientation of fibers in self-compacting fiber reinforced concrete for various kinds of flows in concrete, resembling the field concrete using manual counting technique

Research Team Member

May 2005 - July 2005

Building Technology and Construction Management Division, IIT Madras

- Discovered ways to fabricate Cement Grouted Asphalt Concrete and worked on its applications
- Presented a paper titled “Fabrication of Cement Grouted Asphalt Concrete for Semi-flexible Pavements” at the “2nd Indian National Conference on Advances in Mechanics and Materials”, Chennai, India

WORKSHOPS AND PRESENTATIONS

- Post Disaster Safety Inspector Training – CalEMA SAP Program March 2011
- 19th ACBM/NIST Computer Modeling Workshop, NIST, Gaithersburg June 2008
- Presented a poster at ICRI convention, Purdue University April 2008
- Presented posters at ACBM Semi-Annual Meetings, Evanston, Illinois 2007, 2008

POSITIONS OF RESPONSIBILITY

- Treasurer, Civil Engineering Association (CEA), IIT Madras (2006-07) – managed an amount of Rs 8,00,000 (\$18,000) for the year, including finance for the CEA Fest, a national level civil engineering annual technical festival
- Chief Technical Coordinator, Spirit of Engineering - Shaastra, IIT Madras (2005) – built a manned 8’ x 4’ Hovercraft as a part of the event for the university’s annual technical festival

SCHOLARSHIPS / MEMBERSHIPS

- ACI member, Purdue University 2007-Present
- Pratibha Scholarship, IIT Madras August 2003 - May 2007
(Tuition waiver for my entire undergraduate studies)

COMPUTER SKILLS

AutoCAD, MATLAB, SAP, E-Tabs, STAAD.Pro, SAFE, ABAQUS, MicroStation, SAS, C, C++, FORTRAN, Python

REFERENCES

- Dr. Ayhan Irfanoglu – Assistant Professor of Civil Engineering, Purdue University
Email – ayhan@purdue.edu **Phone:** (765)496-8270
- Dr. Mete A. Sozen – Professor of Civil Engineering, Purdue University
Email – sozen@purdue.edu **Phone:** (765)494-2186
- Dr. Jan Olek – Professor of Civil Engineering, Purdue University
Email – olek@purdue.edu **Phone:** (765)494-5015