CHAITALI R. MEHTA (C.S.Q.E (ASQ), CCP(AWS) E.I.T.) – US Citizen

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OBJECTIVE: To obtain a position in Quality Assurance (ASQ-CSQE) involving technical competency as well as leadership which can be a perfect match for my inherent aptitude in guiding and leading any team.

EDUCATION:

Master of Science in Civil Engineering   **May 2006**
The Pennsylvania State University, University Park, PA.
Cumulative GPA – **3.70 / 4.00**
Thesis - Identification and Characterization of Parameters for Sewer Pipe Condition Rating.

Bachelor of Engineering   **1996-2000**
University of Pune, Pune, India.
Cumulative GPA – **3.75 / 4.00**
Thesis - Developed Software for Analysis of Cantilever Structures using Finite Element Method

EXPERIENCE:

Hexagon PPM   **Mar 2015 - Present**
Senior Software Engineer (Scrum Master) – Smart 3D QA
Huntsville, Alabama Area

• Certified Cloud Practitioner & Software Quality Engineer.

• Highly Experienced in Agile Project Management & SAFe methodology. Expertise in using Devops/TFS for defining and running test cases for Smart3D.

• Scrum master of QA team for past year with an experience of leading 10 team members. This involves collaboration and co-ordination within and outside the team to reduce roadblocks and task completions in timely manner.

• Familiar with ISO9001 Quality Management System audits and experience of training team members for internal audits.

• Defined and configured test environments, including servers, clients, and test plans, for running performance tests on Azure.

• Actively involved in testing and release of SDS/2 Connect for Smart3D (Structural Detailing Software). This included testing the code integration between SDS/2 (Nebraska) and Smart3D as well as verification of design calculations.

• Worked closely on a marine transformation application BOCAD which converted native AVEVA objects to Smart3D objects. BOCAD is used widely for offshore structural projects. This involved testing of the conversion as well as gathering requirements from the onsite customer to streamline the code accordingly.

• Responsible for Smart3D (Structure, Structural Analysis, Equipment, Piping & Civil) quality assurance. This involves software testing as well as validation of the structural analysis and design calculations.

• Responsible for creation of new test plans and updating the existing plans for any new implemented features.

Wyzant, Inc.   **Feb 2012 – Mar 2015**
Tutor
Huntsville, Alabama Area

Tutoring experience of about 400 hours. Subjects include Algebra, Geometry, Precalculus and Calculus for high school, Graduate level Business Statistics courses, Discrete Math, Civil Engineering courses as well as test prep for ACT, SAT, GED, GRE and ASVAB.

Gallet and Associates, Inc, Huntsville, AL   **May 2008 – March 2009**
Geotechnical Engineer

• Responsible for site supervision on drilling (SPT) jobs including layout of boring locations.

• Visual classification of the soils, assignment of laboratory tests as well as conducting laboratory tests.

• Preparation of detailed bore logs and detailed reports with the foundation recommendations based on the drilling and tests information.

Pennterra Engineering Inc., State College, PA.   **August 2006 – April 2008**
Environmental Engineer

• Responsible for design of stormwater management facilities like detention basins, swales, culverts, storm sewer and BMP (water quality and recharge) facilities for residential and commercial subdivisions as well as other land development projects. Analysis and design tools include AutoCAD, VTPSUHM, Hydraflow Hydrographs and Intelisolve Storm sewer software.

• Preparation of Erosion and Sedimentation Control (E&S) plans for implementation during the construction of the projects.

• Environmental permitting which includes NPDES permits for stormwater construction activities and Stream/Wetland permitting for water obstructions and encroachment.

Department Of Civil Engineering, The Pennsylvania State University, University Park, PA.

Instructor – CE 336 (Materials Science for Civil Engineers)   **June 2006–August 2006**
• Course Description – Introduction to civil engineering materials; their structure and behavior, and relationships between structure and behavior
• Responsible for preparing and delivering lectures and setting exams and assignments.
• Conducting and supervising laboratory experiments.

Teaching Assistant – CE336 (Materials Science for Civil Engineers)   **August 2005-April 2006**
• Prepared and presented lectures on "Materials Science for Civil Engineers."
• Created a syllabus, semester schedule, and grading rubric for the laboratory.
• Administered quizzes and guided two sections of 24 students per semester through each laboratory exercise, with a responsibility to safeguard an estimated $250,000 of laboratory equipment

Instructor – CE 335 (Engineering Mechanics of Soils)   **June 2005 – Aug 2005**
• Course Description - Phase relationships, engineering classification, ground water flow, stresses, shear strength, compaction, and consolidation.
• Responsible for preparing and delivering lectures and setting exams and assignments.
• Conducting and supervising laboratory experiments.

Teaching Assistant – CE336 (Materials Science for Civil Engineers)   **January 2005-May 2005**
• Responsibilities similar to those held in August 2005.

Grader - **CE-432** – Construction Project Management.   **Fall 2004**
• Responsible for teaching **BID2WIN** and **PRIMAVERA** packages and preparing tutorials for the same.

SoftTech Engineers Pvt.Ltd, Pune, India.   **July 2003 – March 2004**

Software Development & Quality Assurance Engineer

❖   Involved in Analysis & Design for ESR-GSR Software. Testing, Mathematical Verification & Validation at pre-sales support. The software provided complete Design procedure for different types of Elevated and Ground Service Reservoirs (Water).
❖   Responsible for Manual verification & Design report for Structures which aids in the Software Development Process.
❖   Also involved in development of SEPL-ESRGSR & STRUDS Software.

Abhay Consultants Pvt. Ltd., Pune, India.   **August 2000 – June 2003**

Design Engineer

❖   Responsible for Design & Analysis of Structures including Seismic Analysis.
❖   Involved in preparation of Architectural as well as Structural drawings of Water Treatment Plants, Sewage Treatment Plants, Box Culverts, Roof Trusses, executed by Government or Semi Government bodies.

- ❖ Involved in Estimation (Pre Bid & Post Design) of Water Treatment & Sewage Treatment Plants.
- ❖ Key role in preparing Project Proposals, Tender documents and Work estimate for various high value projects involving amounts close to 20 Crores. Estimation of Water Treatment Plant worth Rs.100 Crores for Tata Consulting Engineers.
- ❖ Site (Onsite) Engineer for 50 MLD (Million litres per day) Sewage Treatment Plant at Erandawane for Pune Municipal Corporation, which was one of the biggest projects for Sewage treatment plant in INDIA.
- ❖ Involved in Estimation, Analysis & Design of High Storage Reservoir at MIDC -Dombivali, Mumbai and also of Balance Reservoirs at CIDCO – Mumbai.

SKILLS:
- ❖ Basic Idea of 4D Modeling.
- ❖ Experience of Working with Smart3D, Tekla, SDS/2 Connect, BOCAD, BID2WIN and PRIMAVERA.
- ❖ Comfortable with Azure environment.
- ❖ Professional experience of working on out of the box software packages like STAAD-PRO, STAAD-2001, STRUDS, STRAND, MIDAS, FEM Studio & Build Master for Analysis & Design of Structures.

AFFILIATIONS:
- ❖ Member of **ASCE** (American Society of Civil Engineers)
- ❖ Member of International HighIQ Society.

CERTIFICATIONS:
- ❖ E.I.T. (Engineer in Training)
- Certified Software Quality Engineer (CSQE) by ASQ (American Society of Quality).

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