JUSTINE ALOISE, EIT

COMMISSIONING ASSOCIATE/MECHANICAL DESIGNER

Justine Aloise is a Commissioning Associate and Mechanical Designer for MH Professional Engineering. In her unique dual role, Justine can be found monitoring progress and performing tests in the field for the commissioning department, while other days are spent in the office working with our staff PEs to develop mechanical designs.

EDUCATION
Bachelor of Science
Mechanical Engineering
University of Rochester

EXPERIENCE
Total: 6 years
With MH: 1 year

AFFILIATIONS
American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)

PROJECT EXPERIENCE

AECOM
SWRMC Structural and Corrosion Engineer – San Diego, CA
Conducted and managed structural assessments, tracked coating assessments and reported findings and repair recommendations as lead structural assessor for eight ships of various ship classes. Worked closely with the maintenance teams to complete engineering service requests and departure from specification assessments. Provided engineering analysis of structural defects and determined cause and risk to ship life and safety.

CSRA
SURFMEPP Corrosion Control Planner – San Diego, CA
Planned and tracked tank and void maintenance, structural repairs and other corrosion-related maintenance of ten ships. Managed after-action reports for the west coast offices of the corrosion division (Japan, Hawaii and Pacific Coast).

New York State Department of Environmental Conservation – Albany, NY
Researched and reported on the use of emerging and conventional waste-to-energy technologies to educate interested municipalities and NYS employees. Researched and compared soil sample contamination studies for an ongoing investigation and assessed solutions.

Columbia University - Earth Institute – New York, NY
Collected and analyzed data on nitrification and denitrification reactors used in wastewater treatment. Designed and produced geometric patterns for carbon dioxide capturing prototype devices. Tracked concentration and rate of carbon dioxide absorption by the final design.

University of Rochester Materials Science Labs – Rochester, NY
Tested the electrochemical embrittlement of spring steel to observe the effect of hydrogen on yield stress. Evaluated Luders bands and stress concentration as an exercise to observe dislocation formation. Studied the interaction of flexible fibers and rigid surfaces to improve optical polishing instruments. Researched potential defense applications of magnetorheological (MR) fluid.