Chicago, IL
773.710.5188
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MILES POSSING

EXPERIENCE

RIVERBANK ACOUSTICAL LABS – SOFTWARE DEVELOPER/ACOUSTICAL TEST ENGINEER (MAY 2016 – PRESENT)

- Developed software solutions for the automation of measuring, calculating, documenting and reporting process in the lab
- Produced user interfaces in .NET using C# WinForms for the detailing of test measurement parameters and specimen descriptions to be used by the experimentalists and acoustical test engineers as well as to display data in a variety of formats
- Developed testable calculation packages conforming to test standards related to the operation of the lab for the automatic calculation of acoustical metrics and other test details
- Designed, built, and deployed the test database used to house all the test data using SQL
- Continued to produce weekly builds and patches in an agile-like project planning scheme once the initial waterfall of the software was completed
- Designed and conducted specialized acoustical tests where no test standards exist on a range of products
- Responsible for the completion of all formal lab reports

PARK COMMUNITY CHURCH – IT MANAGER (JAN 2015 – MAY 2016)

- Solely responsible for the completion of all IT related projects and repairs including networking, hardware, and software for a staff of 100 employees
- Maintained hardware and networking infrastructure across 4 permanent sites

COLUMBIA COLLEGE CHICAGO, AUDIO ARTS & ACOUSTICS DEPT. – ADJUNCT FACULTY (SPRING 2015)

- Instructed Acoustical Modeling: A course focused on the creation and analysis of "what if?" scenarios through computational modeling and evaluated the usefulness of various software solutions to do so

PROJECTS

RIVERBANK ACOUSTICAL LABORATORY – TEST INTERFACE DEVELOPMENT (NOVEMBER 2017 – AUGUST 2018)

Individually developed software using C# (WinForms) and VB.NET used to automate the data acquisition software used by the lab, manage and store data to an Access database, and make calculations specified by related test standards.

This code base amounted to around 11,500 executed lines of code and, as such, the project required extensive amounts of problem solving and object-oriented design; as well as communication with the primary stakeholder – the lab manager – remotely. The software was installed in August 2018 and is currently the primary tool being used for acoustical testing in the lab.

ACOUSTICAL MODELING THESIS (2014)

Developed software using MATLAB to perform a host of acoustical functions. These functions most notably included a 2-dimensional raytracing algorithm used to recursively find and plot all valid reflections from a source point to a receive point, given an arbitrary number of surfaces.

RELATED SKILLS

• .NET Framework	• Docker	• HTML5 and CSS
• C#	• Entity Framework	• JavaScript
• ASP.NET	• SQL Server	• Python

EDUCATION

COLUMBIA COLLEGE CHICAGO – B.S. (ACOUSTICS) – DECEMBER 2014

References Made Available Upon Request