

MATTHEW BERGER

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WORK EXPERIENCE

Hamilton Robotics

Software Engineer I

Reno, NV

October 2014 | Present

- Consolidated a large robotic calibration software suite by architecting a plugin based WPF application, allowing rapid development of new features in a single application for service technicians.
- Automated instrument validation by reverse engineering and consolidating the large software suite for gravimetric analysis into a single, modular, lightweight program compatible with all variations of the core Hamilton robots.
- Repaired all build systems for major codebases and automated manual tasks via scripts, allowing developers to build Hamilton codebases in a reproducible and continuous integration compatible manner.
- Improved the workflow of one of Hamilton's largest OEM customers by creating a plugin-oriented service application and set of calibration routines specifically for their robots that allowed the customer to manage their robots without needing the generic core Hamilton software.
- Created high level C# libraries that simplified complex logic when gathering data from the software describing robotic deck layouts and using that data to execute commands on a robot, including a library that wrapped a particular robot's text only firmware into a logically structured and robust application capable of performing complex tasks on the device with ease and minimal lines of code.

Washoe REOC

Database Application Developer

Reno, NV

October 2014 | May 2016

- Created a web-enabled, searchable database application of subject experts for use by emergency response teams.
- Architected a database and designed a graphical application using the Entity Framework for object-relational mapping.
- Developed in Visual Studio 2013 with ASP.NET MVC 5, C#, MySQL, LINQ, and Razor markup.

EDUCATION

University of Nevada, Reno

BS Computer Science and Engineering

Reno, Nevada

August 2013 - Dec 2017

PROJECTS

Scoop Nerd Fonts Powershell

<https://github.com/matthewjberger/scoop-nerd-fonts>

Scoop package manager manifests for installing nerd fonts

Eager C++, CMake, Ogre3D

<https://github.com/matthewjberger/eager>

An Ogre3D 1.9 and C++ project template that uses CMake to setup an Ogre development environment quickly and easily

SKILLS

Languages (Fluent): C#, C++, Powershell

Hobbies: Piano, Guitar, Rock Climbing, 3D Printing