Scott Pinkerton

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QUALIFICATIONS SUMMARY

20 years designing, developing, qualifying, documenting, and supporting GUI's and PC side applications in Visual Basic/VB.Net for the worldwide inkjet characterization, development, and production industry along with post-inkjet programming experience in C# and ASP.Net/C#.

I believe my biggest asset has always been figuring out how to get the job done and the willingness to do whatever job is required. I started as an operator and worked my way up to software engineer without a formal education.

I am currently a 4.0 gpa Presidents List student at the College of Western Idaho in the CTE Software Development program learning front-end and back-end web design.

Programming experience in:

- Visual Basic 6
- VB.Net 2005
- VB.Net 2008
- VB.Net 2012
- C#.NET 2012 and ASP.net/C# 2012
- C#.Net 2019
- PLC programming.

Currently learning and using:

- HTML5
- CSS3
- Javascript
- Bootstrap Studio
- Brackets
- Wordpress/Elementor
- More to come, such as Angular…

Other Experience Overview

Development of reusable software classes for specific hardware, functionality grouping, etc.

Full system debug/QA – electrical, mechanical, system.

Motion control in coordination with various other equipment.

Use of Microsoft Access databases.

Creating GUI's that cater to every level of user type – operators, technicians, developers.

Working in limited resource and funding environment.

Remote debug/development with multiple company involvement.

Repeatability and Reproducibility (R&R) test design and data analysis using statistical analysis software package.

Experience with communication and tool delivery to non-US customers.

Managing interface and feature development of in-house hardware programmers based on customer and equipment needs.

****** GUI Portfolio available at rscottpinkerton.com***

PROJECT EXAMPLES

Industrial XYZ printer used for ink and architecture development and characterization and initial research of low-cost 3D printing for both thermal and piezo architectures.

- Full engineering interface, with configuration load/save features allowing it to be used by production personnel. Created a scripting interface and data structure allowing absolute flexibility in creating test suites for all types of users – print head architects, ink developers, qualification testing, etc.
- Use of XML format and MS Access database for configuration persistence.
- Flexible application design allows use across several different inkjet platforms.

Developed GUI's and system/component control and applications for both 2D and 3D drop observation systems, including velocity and 3D trajectory for various Hewlett-Packard print heads and Spectra/Dimatix print heads.

- Used high speed cameras, Matrox Image Library (MIL) for image analysis,
- Ultra-high precision Keyence sensors and motion control for sub-micron calibration and positioning – provided velocity relative to print head and drop to drop velocity across all available firing parameters.
- Implemented coordinate transformation algorithms to convert dual camera information into 3D trajectory.

Developed a method to populate GUI content at runtime for both input and displayed data that reduced development time on a new and dynamic interface.

Developed an application that, by running multiple instances tied to unique hardware sets at runtime, allowed complex asynchronous multitasking to be performed by the PC CPU rather than the longer development time required to create a multitasking asynchronous application.

As a technician at Hewlett-Packard, the engineering support was removed during startup development of cutting edge Laser Doppler technology for velocity and trajectory inkjet characterization. I developed the remaining hardware and software needs, working with the manufacturer to address new technology issues and customers to implement needed functionality, debug, and qualification. .

Other interfaces and applications:

- Gravimetric drop volume characterization systems.
- Product interfaces for printing solutions for the Marking and Coding industry.
- Created application for the peizo inkjet industry that controlled and measured pressure and flow at architecture design infancy.

Other notables:

- Data acquisition and signal generation using National Instruments products.
- Experience with different camera types, frame grabbers, and image analysis using Matrox Image Library.
- PLC – Developed an automated ink fill system using a CLICK PLC controller.
- CAD – Experience with ME30, Solid Designer, and Solid Works.
- Experience creating complex system diagrams using Visio.

- Documentation writing.

PROJECT MANAGEMENT EXPERIENCE

Experience in:

- Scoping
- Costing
- Quoting
- Scheduling (Task and Resource)
- Real-time resource management
- Identifying and acquiring funding for un-scoped changes.

Project Example

Goal: Transform engineering interfaces into automated production solution, controlled remotely by a central production line controller.

Worked with the customer and the company contracted to manufacture the production line to:

- Generate detailed tasks list with associated resource time and costs.
- Determine requirements, milestones, and overall schedule.
- Solidify funding details.
- Executed project to completion and on time.

EMPLOYMENT HISTORY

NOTE: From 2014-2017, I was the caretaker for my ill father until his passing.

Created Bramble Technologies – 2014

Contract engineering venture.

Co-creator and Co-owner Hoople Industries, LLC – 2015

Proprietary product development venture.

Title: CNC Machinist/Production – (Part time 2015-2017)
FJ Enterprises, LLC

Manufacturing of high-performance precision projectiles.

Title: Software Engineer

ImTech Technologies/ImTech Inc.
1/1999– 2/2014

Design, development, support, qualification, and documenting interfaces and systems for the global inkjet industry.

Title: Engineering Technician
Hewlett Packard Boise, ID: 1988-1995
Hewlett Packard Corvallis, OR: 1995-1999

Responsible for the development and support of inkjet characterization systems for the R&D group in Corvallis and San Diego.

Development of user interfaces and applications for 3D Laser Doppler and Drop Velocity systems, converted entire tooling interface to upgraded language.

Started as Operator, Engineering Assistant.