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Sample GUI/Application Portfolio

Fundamentals

- Experience controlling complex systems
- Focus on reusable/portable code when applicable
- GUI's designed to provide needed interfaces for all user types: Architects, support staff, test operators.

Industrial XYZ Inkjet Characterization Engineering/Production Application

3-axis motion control coordinated with custom printing h/w

Three Levels of System Interfacing

1- Simple Image Print

Select Image

Set Print Properties

Print It

Industrial XYZ Inkjet Characterization Engineering/Production Application

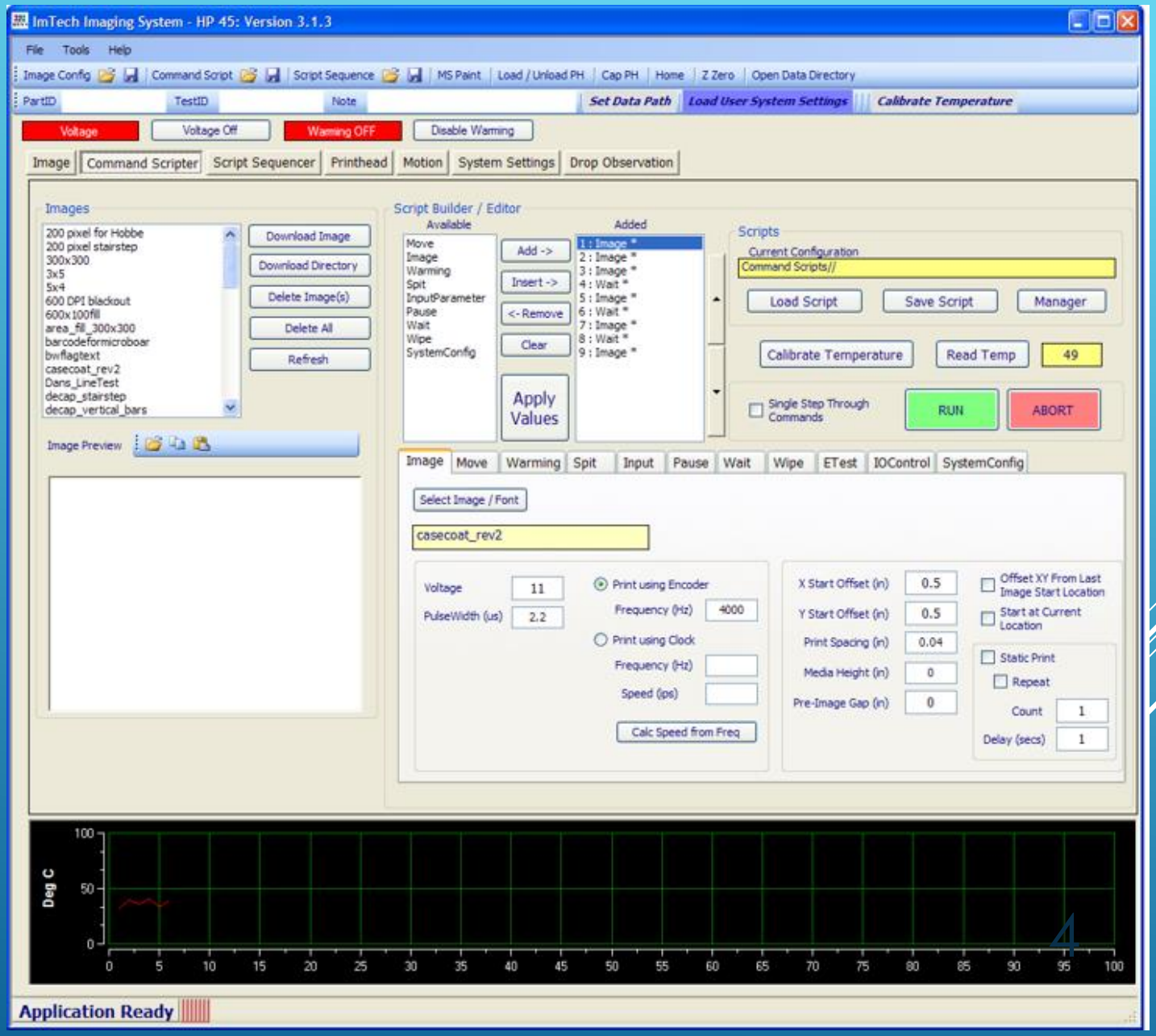
2 - Dynamic Script Builder

Add / Insert Available Commands and Configure

Re-order Commands / Edit Parameters

Save the Script and Run It

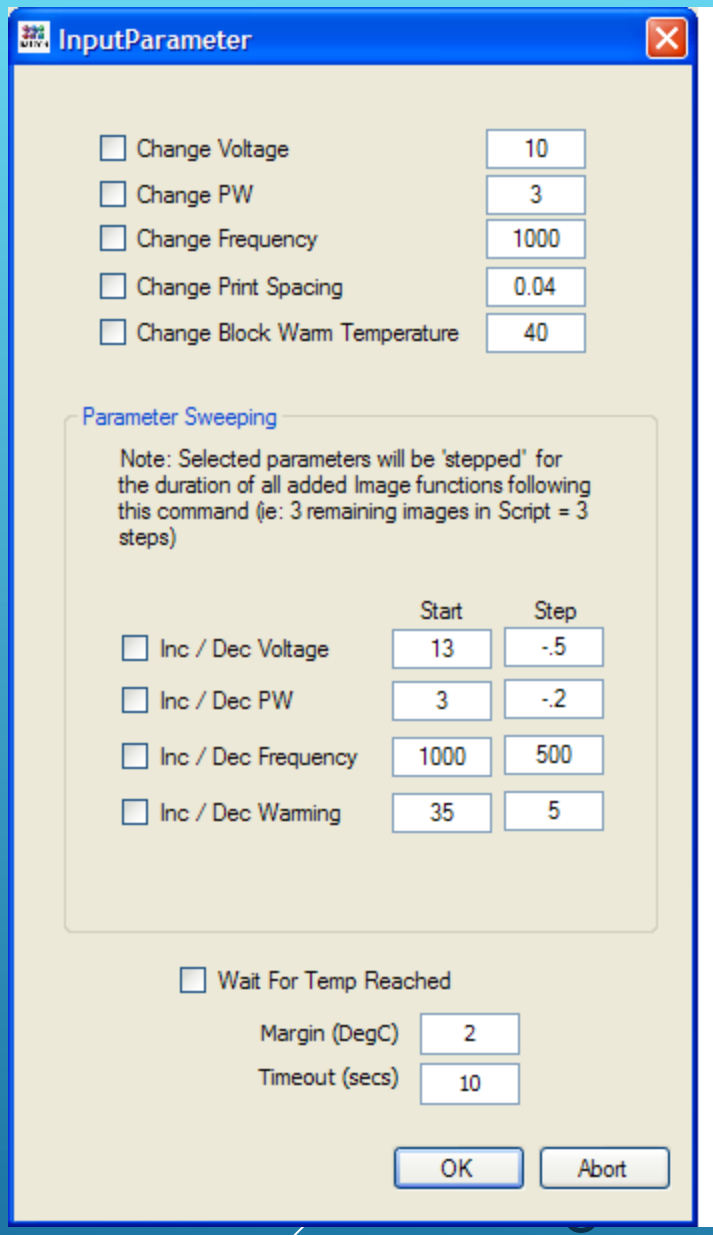
Or Load Saved Script and Run



Easily Alter Script Parameters Globally Due to Test / Architecture Requirement Changes

- Apply changes to all subsequent applicable commands

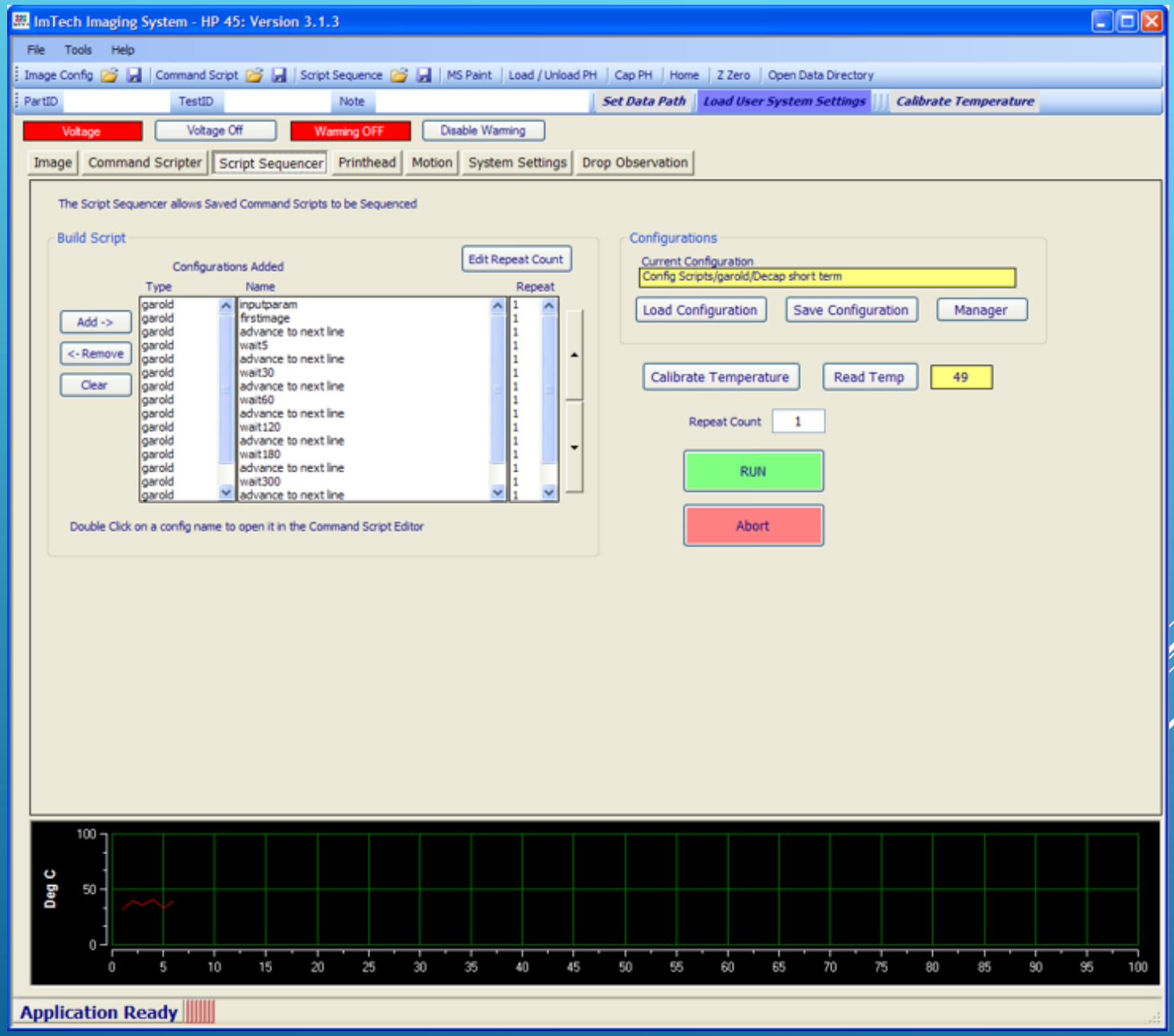
- Automatically create 'Parameter Sweeps' to easily generate performance profiles



Industrial XYZ Inkjet Characterization Engineering/Production Application

3 - Build Complex Test Suites

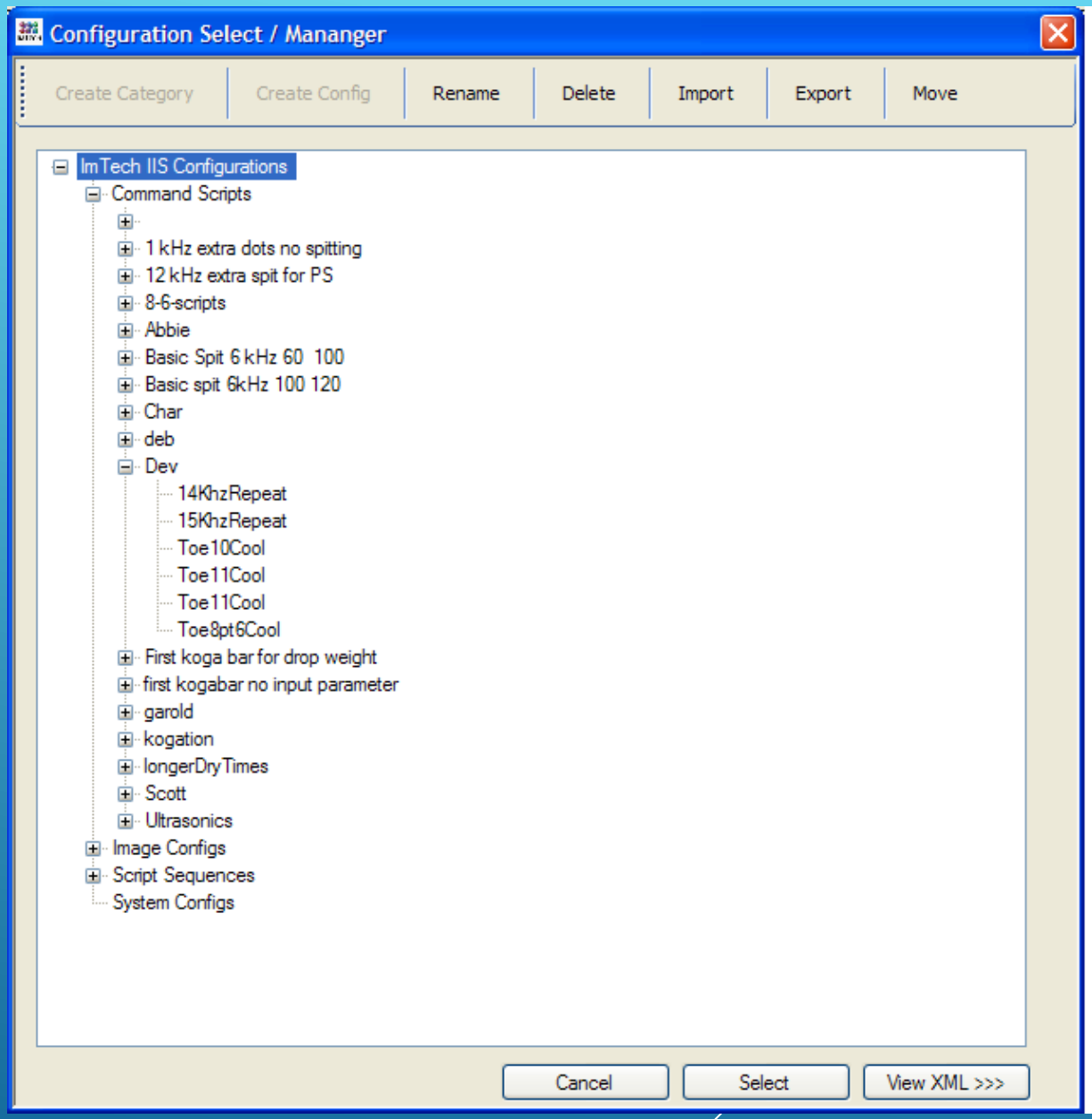
Dynamically Sequence / Loop Series of Scripts



Manage XML Format Configurations (on this system, stored in custom MS Access Database Schema)

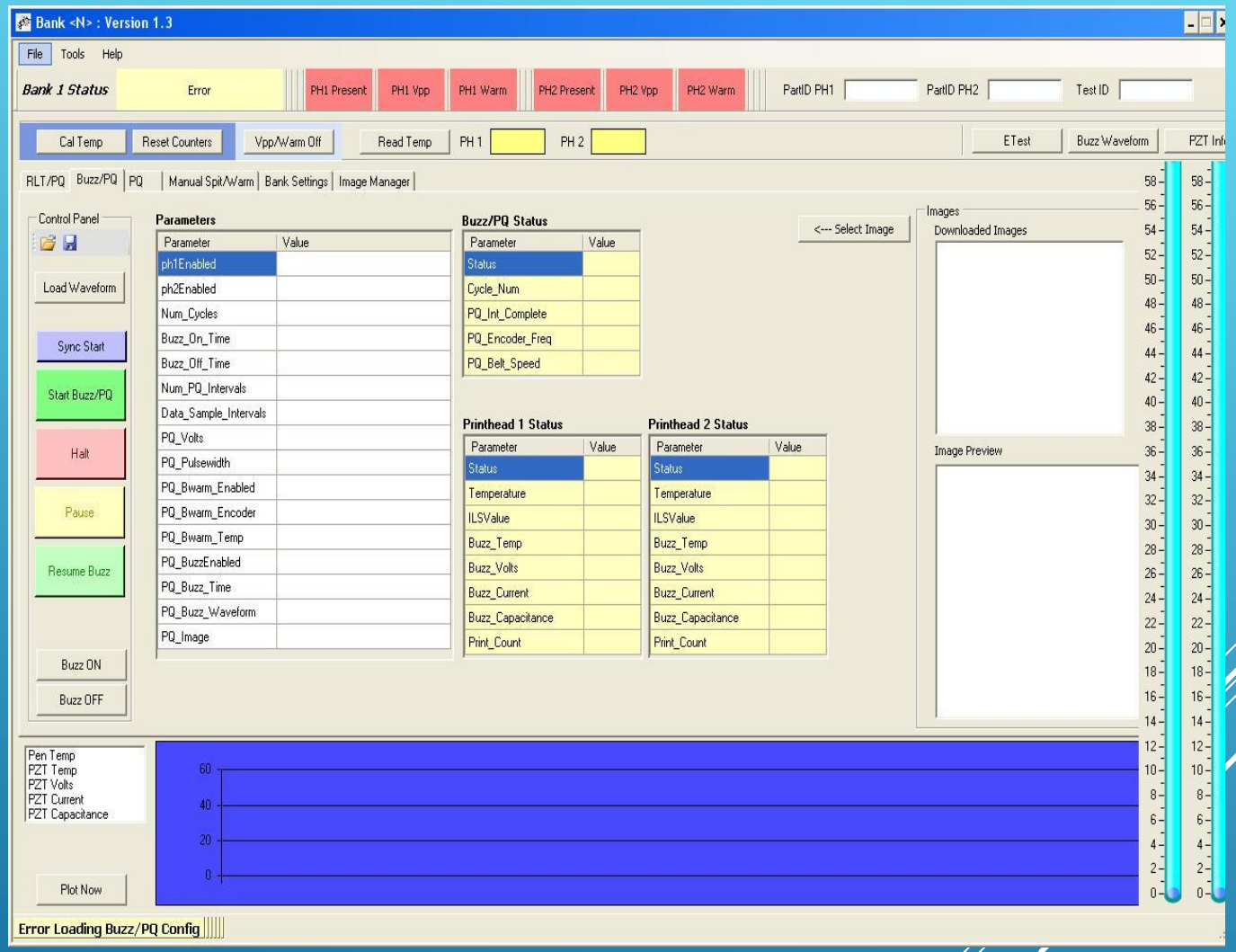
Build / Manage custom categories and script names by test type

Easily export/import scripts and referenced images between systems



Dynamic Generation of GUI Content and Population of Internal Data Structures

- Reduce application development time by generating parameter input / data display at run-time
- Changes to three lines alters all data sets and UI at all levels
- No time wasted on form reorganization
- Maximize space using tables

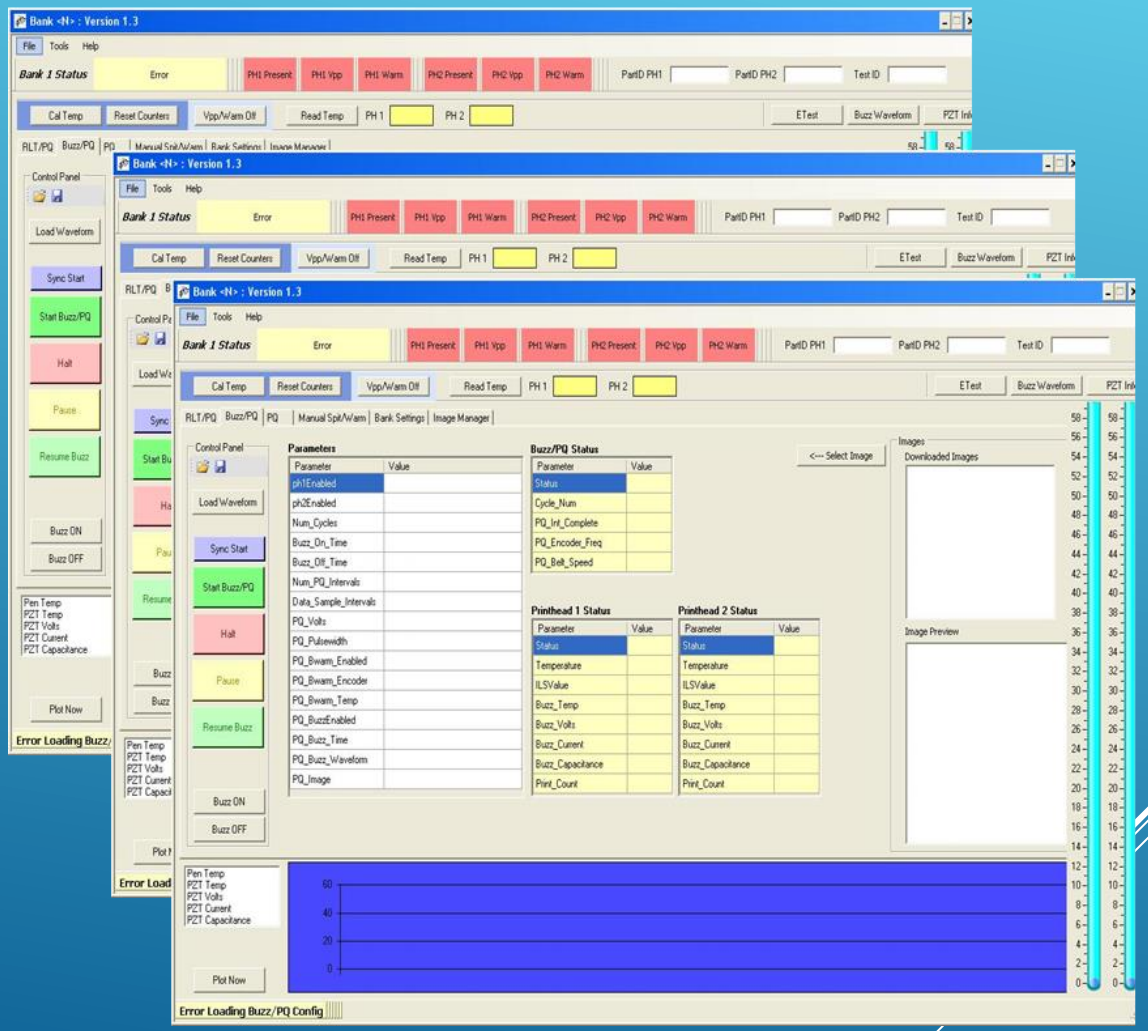


Utilize PC Processor/Windows to Provide Asynchronous Testing within a System

- Multiple Instances of Single Application 'tied' to hardware set (Bank) at run-time
- Each Bank can run completely independent

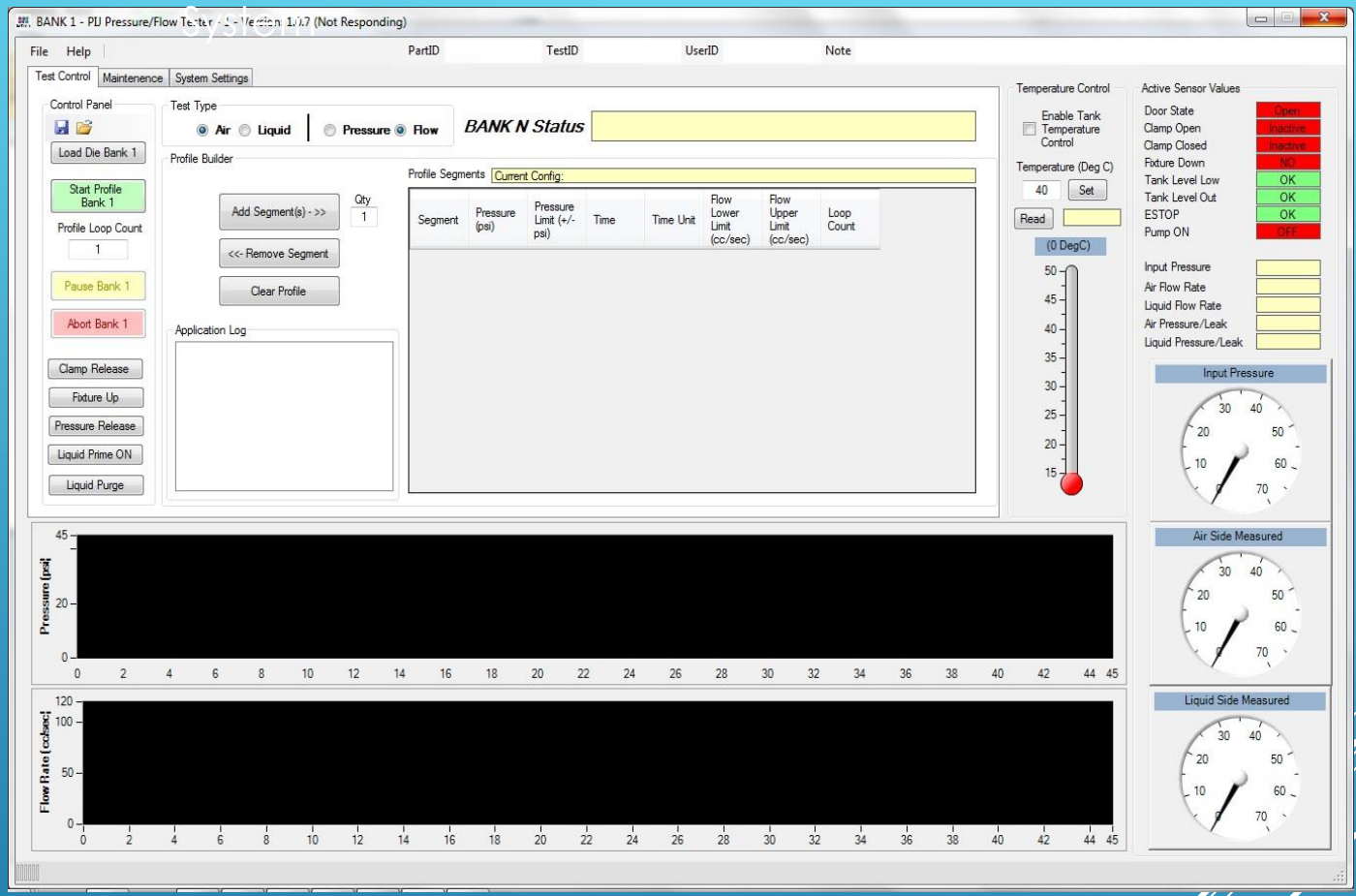
Data Acquisition using array of National Instruments hardware packages

- Or Sync all Banks using Syncer App

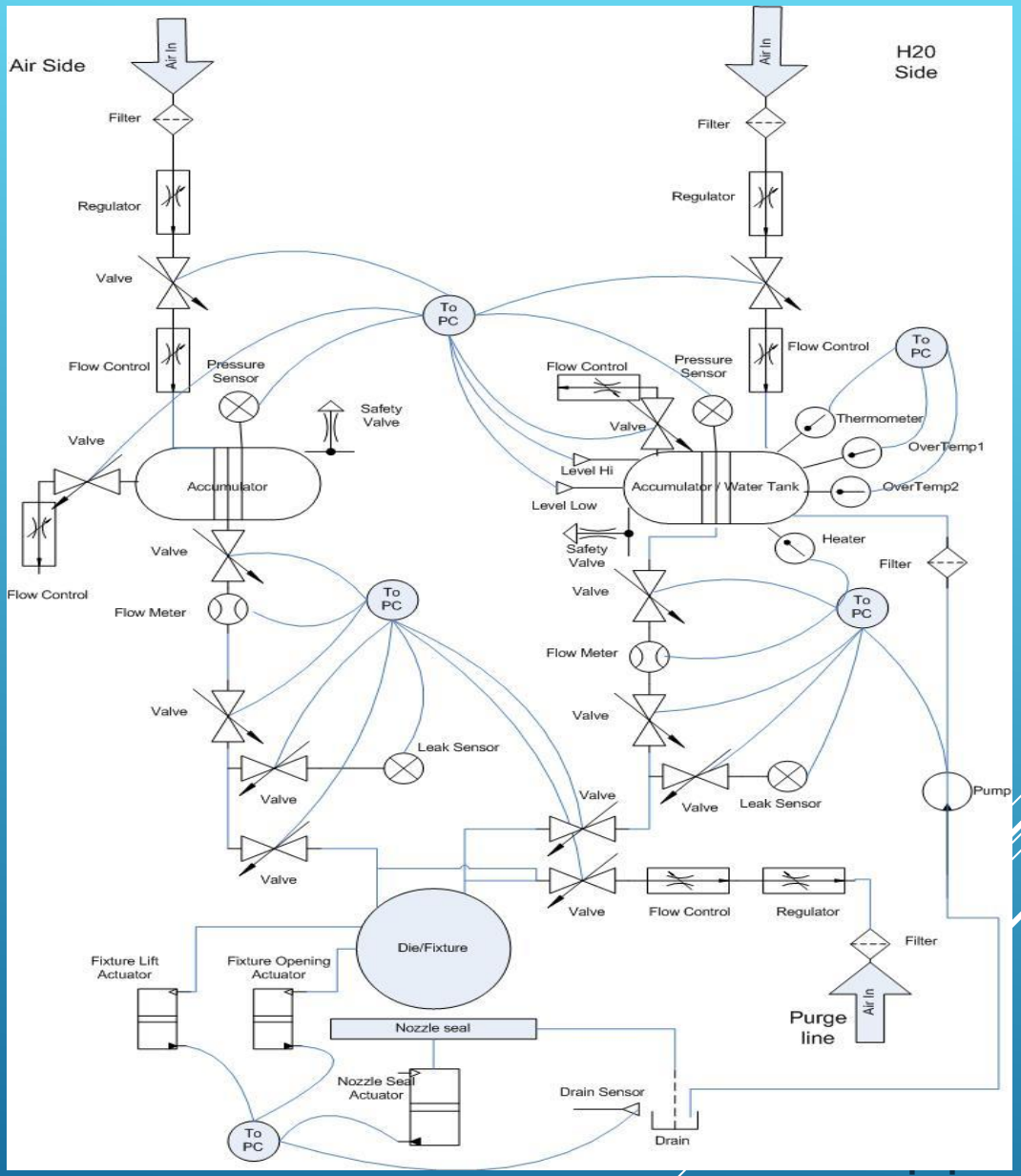


Custom Pressure/Flow Characterization System

- Multi-Bank Implementation
- Precision Air/Water Pressure and Flow Control
- Precision Pressure/Flow Metering
- Custom Profile Creation using Dynamic Segment Builder
- Real-time System/Data Monitoring

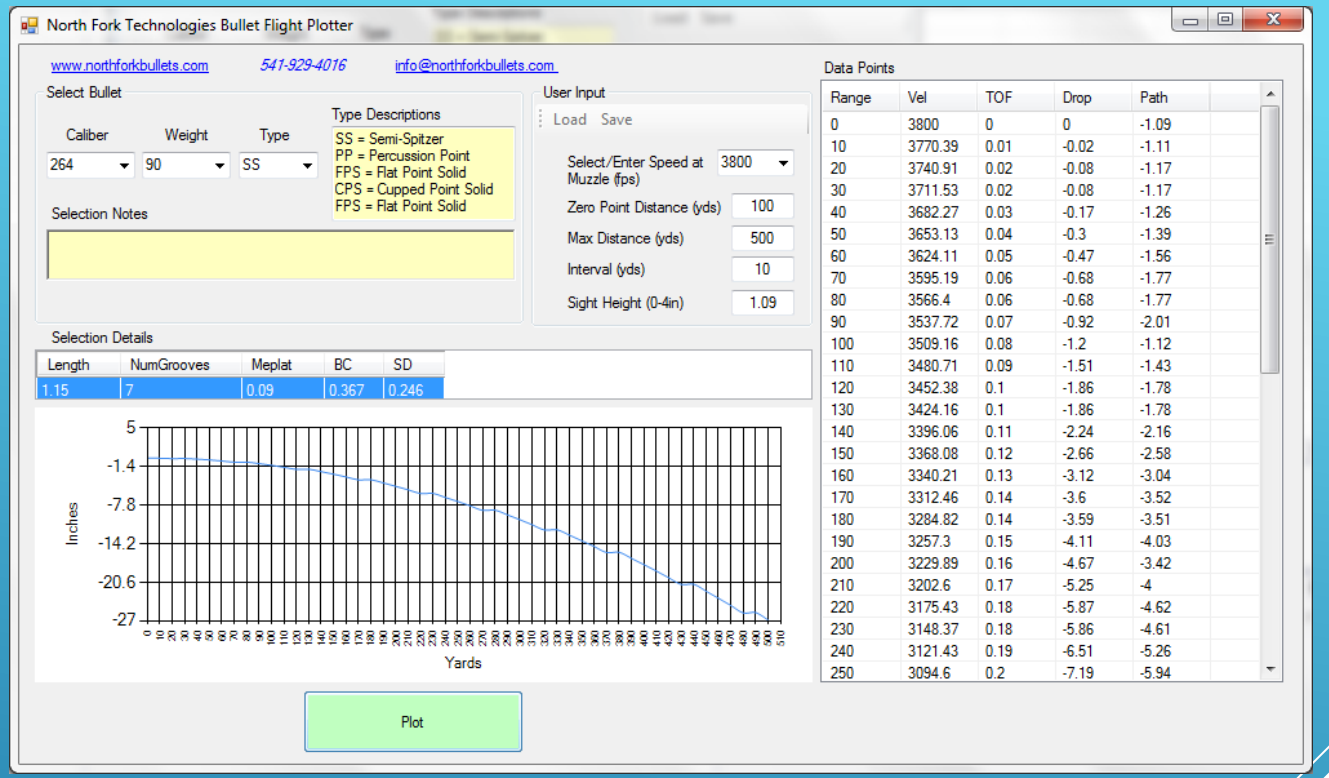


Complex Visio Diagram System Design



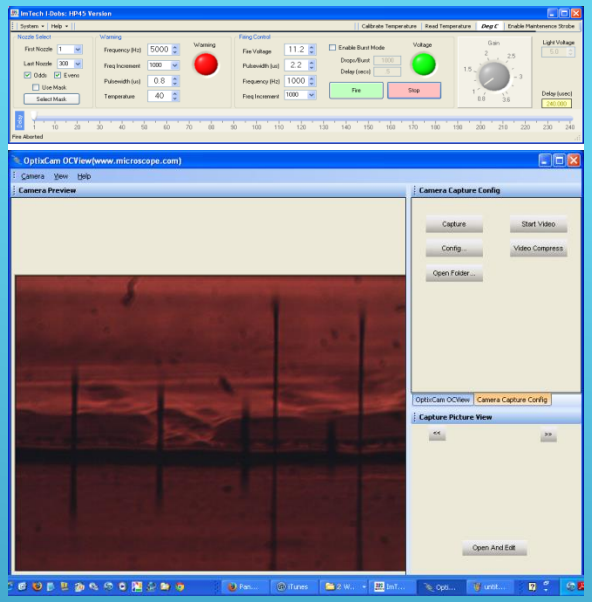
Application using C#

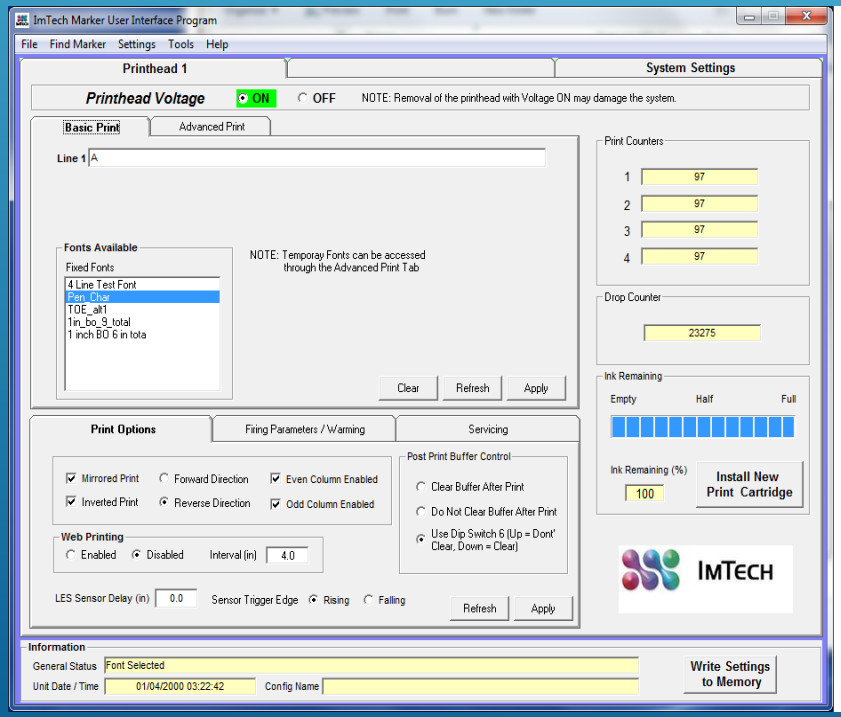
- Full C# Winforms Application
- Utilizes SQL Server, Control Databinding and SQL Querying



Other Inkjet System Examples

- Vision Systems
- Gravimetric Drop Volume Tool
- Marking and Coding Industry System Control Applications





HOPEFULLY THIS PROVIDES A SAMPLE REPRESENTATION OF MY SKILLS AND EXPERIENCE

Thank you for your time and consideration

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