Introduction

- Who am I?
 - Ben Rousch
 - Manager of Information Systems
 - Van Dam Iron Works
- What's going on?
 - Last Month Summary
 - PDFTK
 - MonoDevelop2
 - Creating the GTK# GUI for PDFTK
 - Linux/Windows/OSX Demo

Summary of Last Month's Presentation

- Introduction to Mono
- Possible risks with relying on Mono
- "Hello World" in MonoDevelop
- Ran same executable on Linux, Windows, and OSX

What is PDFTK

- A free and open source command line program for working with PDFs
 - Combine multiple PDFs into one
 - Split a PDF into pages
 - Many more operations
- Available for Linux, Windows, and OSX
- http://www.accesspdf.com/pdftk/

What do we use PDFTK for?

- We are in the construction business, so we deal with a lot of electronic blueprints.
- Those blueprints come as a large multipage PDF, or a folder full of single page PDFs
- We want to reorganize the PDFs
- PDFTK is a cheap and easy way to combine or split (burst) PDFs.

MonoDevelop2

- A Mono IDE
- Supports C++, C#, VisualBasic
- Integrated GTK# Designer (Stetic)
- Available for Linux and OSX
- More stable than MonoDevelop1

Creating the GTK# GUI wrapper

- MainWindow
 - Menu
 - File \rightarrow Quit
 - Help \rightarrow About
 - Notebook
 - Burst Page
 - File Select Section
 - Label
 - Text Entry
 - Button
 - File Select Dialog
 - Burst It Button
 - Combine Page
 - StatusBar
 - ProgressBar

Common Trip-ups

- If you get an error about gettext in Windows, set the following in your project:
 - Project -> Options -> General -> GTK# Settings
 - Disable gettext support
- To remove the DOS window while the program runs:
 - Project -> Options -> Build -> General
 - Compile Target: Executable with GUI

Ubuntu Demo

- Copy our executable to ~/pdftkgui
- apt-get install pdftk
- apt-get install mono-common gtk-sharp2
- Run from command line:
 - mono ~/pdftkgui/PdftkGui.exe

OSX Demo

- Copy our executable to ~/pdftkgui
- Install PDFTK for OSX
 - http://www.accesspdf.com/pdftk/#packages
- Install Mono Framework for OSX
 - http://www.go-mono.com/mono-downloads/download.ł
- Run from command line:
 - mono ~/pdftkgui/PdftkGui.exe

Windows Demo

- Copy our executable to My Documents\pdftkgui
- Download PDFTK for Windows
 - http://www.accesspdf.com/pdftk/#packages
 - Move pdftk.exe to My Documents\pdftkgui
- Install GTK# for .NET from Mono web site

http://www.go-mono.com/mono-downloads/download.ł

Double-click My Documents\pdftkgui\PdftkGui.exe

Resources

- Mono: http://www.go-mono.com/
- MonoDevelop: http://monodevelop.com/
- PDFTK: http://www.accesspdf.com/pdftk/

Mono, MonoDevelop, GTK# Additional Talking Points

- MonoDevelop2 F1 Help
- HBox, VBox, Expand, Fill
- GTK Stock Buttons, Icons
- Stetic XML vs Glade XML
- Winforms is fugly on OSX and Linux
- Deploying GTK# to Windows is easier than PyGTK