

Claude Bétrisey

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Education

PH.D IN COMPUTER SCIENCE | 1993 | SWISS FEDERAL INSTITUTE OF TECHNOLOGY

- Automatic hint generation for typographic characters based on a topological model

BACHELOR DEGREE IN COMPUTER ENGINEERING | 1988 | SWISS FEDERAL INSTITUTE OF TECHNOLOGY, LAUSANNE, SWITZERLAND

- Major: Computer graphic, digital typography
- Diploma work: Outline characters rasterization using conics

Skills & Abilities

MANAGEMENT

- Lead the Windows text team for 5 years (GDI, GDI+ and WPF)

TEXT RENDERING TECHNOLOGY

- Recognized as an expert in text rendering technologies (OpenType, TrueType).
- Major contributor to the quality of the text rendering in Microsoft products (ClearType)

FUNDAMENTALS

- Drove fundamentals work in WPF, Silverlight and XAML.

BUILD ENGINEERING

- Being the Go-To guy for build engineering issues in WPF, Silverlight and then Xaml

Experience

PRINCIPAL DEVELOPER IN WINDOWS ENGINEERING TEAM | MICROSOFT | OCTOBER 2012 -

PRINCIPAL DEVELOPER IN XAML TEAM | MICROSOFT | JUNE 2010 - OCTOBER 2012

- Working on text rendering and build integrations for the xaml team.

TECHNICAL LEAD IN SILVERLIGHT TEAM | MICROSOFT | MARCH 2007- JUNE 2010

- Implemented TrueType/ClearType text rendering in Silverlight
- Increased international text support at every release of Silverlight

TECHNICAL LEAD IN WPF TEAM | MICROSOFT | 2004 - MARCH 2007

- Working on text rendering and build integrations for the xaml team.

DEVELOPMENT LEAD IN WINDOWS TEXT TEAM | MICROSOFT | 1999-2004

- Lead the text team through GDI, GDI+ and WPF
- Main contributor to the implementation of ClearType in Windows XP (numerous patents)

SOFTWARE DESIGN ENGINEER IN WINDOWS TEXT TEAM | MICROSOFT | 1997-1999

- Working on TrueType text rasterization and International text rendering for Windows GDI.

SOFTWARE DESIGN ENGINEER IN MICROSOFT TYPOGRAPHY TEAM | MICROSOFT | JULY 1993-1997

- Improved font production and validation tools

RESEARCH ASSISTANT | SWISS FEDERAL INSTITUTE OF TECHNOLOGY, LAUSANNE, SWITZERLAND | 1988-1993

- Researched digital typography
- Published "Model-based Matching and Hinting of Fonts", paper by Claude Betrisey and Roger D. Hersch, in SIGGRAPH '91
- Patented a method for producing visually evenly spaced typographic characters (US patent 5768490)