

# DAVID J. SCHERBA

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## EDUCATION

**University of Illinois at Urbana-Champaign**

1999 — 2005

*Urbana-Champaign, IL*

**M.S., Electrical Engineering (August 2005),** GPA: 3.77/4.00

**B.S., Computer Engineering (May 2003),** GPA: 3.77/4.00

- Mathematics Minor
- Chancellor's Scholar
- James Scholar, College of Engineering

**Related Coursework:** Image Processing, Signal Processing, Computer Vision, Random Processes/Probability, Communications, Numerical and Functional Analysis, Computer Architecture, Data Structures and Algorithms, Discrete Mathematics

## EMPLOYMENT HISTORY

**Director of Client Engineering, Personify, Inc.**

2014 — Present

**Senior Member Technical Staff, Personify, Inc.**

2010 — 2014

*Urbana, IL*

- Develop client software to productize Teleporter and User Extraction, Personify's core IP
  - o Teleporter HoloLens Remoting Client (C++)
  - o Android ARCore Teleporter Client (Unity, C#, C++)
  - o Teleporter [Windows] Client (Unity, C#, C++)
  - o Personify Presenter (C#, WPF/XAML, C++)
  - o Personify ChromaCam (C#, WPF/XAML, C++, DirectShow, Thrift)
  - o Personify [Omni] (C#, WPF/XAML, C++, XMPP)
  - o Personify Live (C#, WPF, C++, MFC)
- Investigate and implement cross-product software capabilities
  - o Copy protection and licensing (CopyMinder)
  - o Software updates (wyUpdate, WinSparkle)
  - o Windows installers (NSIS)
- Lead client software design and development activities
  - o Facilitate Scrum planning meetings
  - o Propose task and resource allocations
  - o Liaise between functional teams (web/cloud, client, test) and engineering offices (Urbana, Chicago, Ho Chi Minh City)
  - o Measure, summarize, and report on product status to VP Engineering, CTO, and CEO
- Engage and support customers through entire product life cycle

- Senior Engineer, Qualcomm Innovation Center, Incorporated** 2009 — 2010  
*Champaign, IL*
- Technical lead of Android Bluetooth 3.0+HS development team
  - Member of Android Bluetooth development team
    - o Helped develop and integrate Bluetooth OBEX profiles on Android
    - o Helped port and integrate a proprietary Bluetooth stack on Android
    - o Supported system, interoperability, and Bluetooth qualification testing
- Senior Engineer, Qualcomm Incorporated** 2008 — 2009  
*Champaign, IL*
- Member of Windows Mobile Bluetooth team
    - o Enhanced the Windows Mobile emulator to support Bluetooth connectivity
    - o Helped port and integrate a proprietary Bluetooth stack on Windows Mobile 6.x
- Senior Engineer, Qualcomm Incorporated** 2007 — 2008  
**Engineer, Qualcomm Incorporated** 2005 — 2007  
*Boulder, CO*
- Member of UMTS network test set development team
    - o Developed, enhanced, and maintained support of UMTS network features
    - o Supported a worldwide internal customer base
- Research Assistant, National Center for Supercomputing Applications** Spring 2004 — Summer 2005  
**University of Illinois at Urbana-Champaign**  
*Urbana-Champaign, IL*
- Investigated, implemented and reported on novel applications of wireless sensor networks
  - Added wireless sensor network and computer vision-oriented tools to the Image to Knowledge platform
- Teaching Assistant, Electrical and Computer Engineering Department** Fall 2003  
**University of Illinois at Urbana-Champaign**  
*Urbana-Champaign, IL*
- Instructed and graded one section of ECE 206, a circuit lab for non-ECE majors
  - Authored a grading rubric to standardize evaluation across lab sections
  - Named to the Incomplete List of Teachers Ranked as Excellent, Fall 2003
- Computer/Network Administrator, Coordinated Science Lab** 1999 — 2004  
**University of Illinois at Urbana-Champaign**  
*Urbana-Champaign, IL*
- Installed and maintained workstations, network connections and related equipment
  - Authored scripts to automate complex system maintenance tasks
- Software Design Engineer Intern, Microsoft Corporation** Summer 2001  
*Redmond, WA*
- Added performance monitoring capabilities to the Passport email verification system

**Research Programmer, Communications and Space Sciences Lab  
Pennsylvania State University**

Summer 2000, 2002

*University Park, PA*

- Designed an application framework to enable real-time data analysis
- Authored a GUI data analysis suite in IDL for ISR studies of the ionosphere
- Authored a modular, extensible data reader

**SKILLS**

- **Platforms:** Windows, GNU/Linux, MacOS X, VxWorks
- **Frameworks and APIs:** Win32, WPF/XAML, MFC, Android
- **Applications:** MS Visual Studio, Unity, Jupyter, Android Studio, MATLAB, MS Office
- **Languages:** C/C++, C#, Python, Java, Perl, HTML, XML, x86 Assembly