

# PENG HONGYONG

## Information

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Birth Place: Linyi, Shandong  
Birth Date: December, 1984

## Experience

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- **Autodesk Inc.(M&E Division)—Shanghai** Nov 2010–Jun 2013  
*Software Engineer For Smoke*  
*Autodesk Smoke® software is an all-in-one solution for professional video editing and effects. It is installed on Mac and Linux workstations. And as a member of media management team, my work is as follows,*
  - *Feature development*
    1. *Archive Pre-Verification*  
*Before archiving clip data into package, use producer/consumer pattern to do integrity check for video frames.*
    2. *Backburner configuration UI*  
*Add new Backburner[1] configuration panel into Smoke.*
    3. *Workspace hierarchy*  
*Introduce workspace concept into Burn and command line tools.*
    4. *Burn[2] related task support*  
*Client application UI modification, Burn task management, Scons build scripts modification, etc.*
    5. *Partial PPFx effect support*  
*Import Timeline with composite mode and dissolve effect from Final Cut Pro[3] into Smoke.*
  - *Test development*
    1. *Write command line tools, which are used for media import/export automation test.*
    2. *Write unit tests, do white box tests for media management framework.*
  - *Bug fixing*
    1. *Fix legacy bugs in media management team.*
    2. *CER bugs (Customer Error Report). Read dump logs sent from customer, according to C++ call stacks, try to reproduce bugs, categorize and/or fix them.*
  - *Daily maintenance*
    1. *Troubleshoot Smoke service related problems, such as Stone+Wire, Wiretap Gateway, Backburner, etc.*
    2. *Daily builds sync, synchronize remote daily builds to Shanghai Team.*

- **ASUSTeK Inc.(IA Division)**—Hangzhou *Jul 2007–Nov 2010*  
*Software Engineer*  
*As a software engineer, I develop small applications on Mobile and Tablet devices, based on Windows Mobile and Windows.*
  - *Internet Calendar*  
*Implement protocols Caldav(RFC 4791), Webdav(RFC 4918), based on HTTP.*  
*Implement basic parser for iCalendar format(RFC 5545)*
  - *Calculator*  
*Design and implement the calculator's whole backend.*
  - *EEE Net*  
*Database interface support.*  
*Implement File Monitor module.*
  - *ASUSZip for Windows Mobile*  
*It is a compression tool supporting 7z, zip, rar, I focus on bug fixing*

## Education

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- **Jilin University(Computer Science)**—Jilin *Sep 2003 – Jun 2007*  
*Bachelor*

## Skills

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- **Computer Languages**
  - Proficient in C/C++
  - Knowledge of Shell, Python
- **Tools and Systems**
  - Familiar with GCC, GDB, EMACS on Linux and Mac
  - Familiar with Visual Studio on Windows
- **Techniques**
  - Familiar with TCP/IP, HTTP
  - Familiar with Unit Test and Automation Test

## References

- [1] Backburner<sup>TM</sup> is the Autodesk<sup>®</sup> queue manager for background processing and distributed network processing.
- [2] Autodesk<sup>®</sup> Burn<sup>®</sup> software is a Linux<sup>®</sup>-based network processing solution for Autodesk Creative Finishing tools. Use Burn to help render images in the background using low-cost PC workstations, freeing your online suite for more creative tasks.
- [3] Final Cut Pro is a non-linear video editing software developed by Macromedia Inc. and later Apple Inc.