

## Outstanding Placement Award Presentation

Wonderful Life in Switzerland  
Presented by YU Fei

**ABB**

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## Presentation Agenda

- My group and work
- My achievements
- Challenges I have overcome
- What I have learnt
- During the leisure time...

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## An overview of my group and work

- **ABB**
  - World No.1 in power technologies
  - Provide power products such as transformers, switchgear, circuit breakers and so on
- **ABB Research center**
  - Founded in 1966
  - Located in Baden, near Zürich
- **My research group**
  - V5 (Power Device Simulations) : 10 colleagues and 5 interns
  - Supervised by Andreas Blaszczyk -- Chair scientist experts in High Performance Computing
  - Work as a software engineer
- **Two projects that I have mainly involved in:**
  - Toolbox project
  - Emesh project

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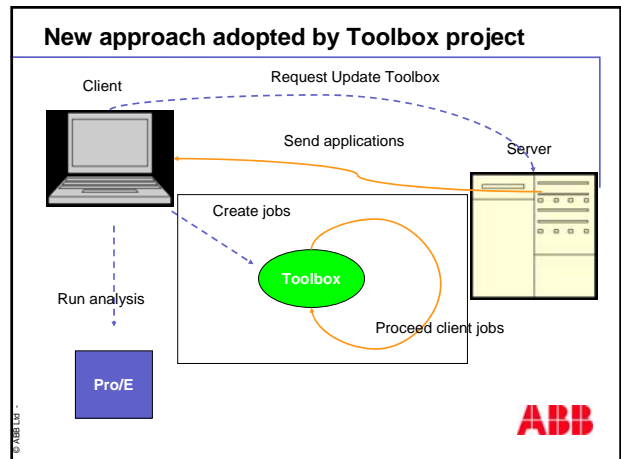
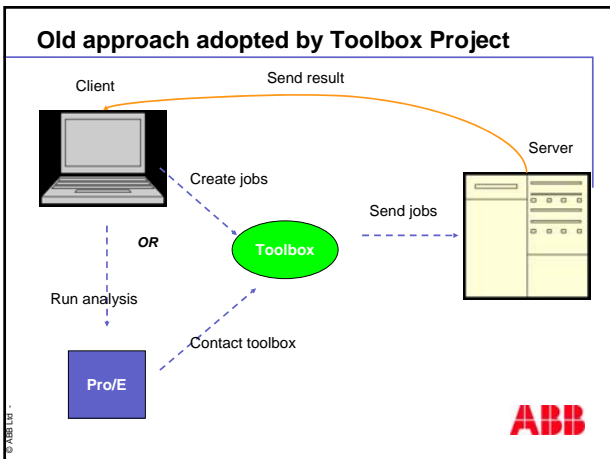
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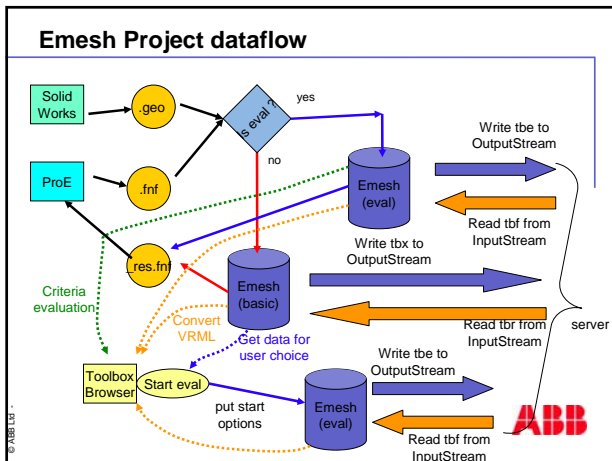
## My Achievements

- **Toolbox Project - 6 months**
  - Network for industrial engineers to run mechanical analysis
- **Emesh Project - 6 months**
  - Framework enables communications between commercial tools such as CAD, ProE, SolidWorks and internal ABB tools

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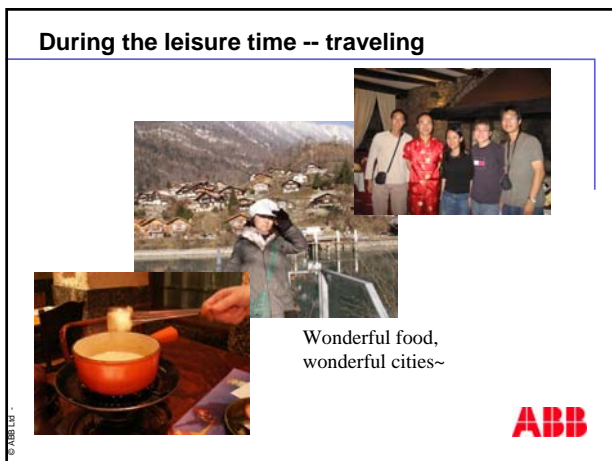




- ### My Achievements (cont.)
- Successful cooperation
    - Have the first code client "eView" (developed by colleagues from Polish research center) for "eMesh"
    - Integrate simulation tools written in Fortran and C by Norway Colleagues with "toolbox"

- ### Challenges to overcome
- First training in Arcstyler company located in Germany
    - One week after I arrived
  - Language skills
    - Colleagues from various countries: Romania, Serbia, Germany, Ireland, Sweden, Poland, Switzerland, India etc.
    - Colleagues with different background
  - Insufficient mechanical knowledge
    - Development and design requires understanding of mechanical knowledge

- ### What I have learnt
- Hard skills:
    - Polished programming skills such as Java, Perl etc.
    - Achieved deeper understanding of software engineering, network theory etc.
    - Mastered more softwares and applications:
      - Arcslyter, IntelliJ, Eclipse
      - WinCVS
      - JUnit
      - Ant
      - CAD, SolidWorks, ProEngineer
  - Soft skills improved:
    - Communication skills
    - Understanding ability
    - Self-learning skills
    - Independency



During the leisure time...



Trying and challenge myself!



Q and A

