

# Waihung Leung (Ph.D.)

## Program Manager / Senior Engineer / Scientist

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### AREA OF EXPERTISE

Technical Management  
Code & Standards  
Licensing  
Material and Structural  
Mechanical Designs  
Safety

### PERSONAL SUMMARY

I am a self-motivated, dynamic and results oriented senior engineer / project manager with more than 20 years experience in a highly regulated industry. A brief summary of my main qualifications:

- Managed multidisciplinary projects for the full project lifecycle.
- Worked with and managed multidiscipline, multinational and multicultural teams to accomplish project goals.
- Commissioned and decommissioned a nuclear installation.
- Successful track record of completing complex projects on time and on budget.
- A broad base of scientific and engineering knowledge and technical know-how in a wide range of engineering fields.

Constantly keep technical knowledge current through technical journals and selected electronic media.

### PERSONAL DATA

Waihung Leung (Ph.D.)  
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### Marital Status

Married with  
3 college age children

### EMPLOYMENT HISTORY

#### Startup Companies 2014 – Present

Currently working on various inventions and my own business startups:

- **Mechatronic Sewing Machines:** redesign of industrial sewing machines based on the concept of mechatronics. A complex machine is modularized and each module is driven by a step/servo motor. In that way, the machine can be built with the minimum of mechanical parts, and would be more efficient, silent and flexible. The goal is to make sewing machines that are easier to be adapted into an automated production line. The project is entered into the “**Venture 2016**” competition at the ETH-Zurich with the goal of attracting development funding.
- **China Focus:** a startup company promoting the business-to-business cooperation between Chinese and Swiss companies. The main service is language and business consulting, together with e-commerce as well.
- **CATSys:** a private investment fund based on a proprietary computer aided trading system developed by the founder.
- **Leadwort (HK):** A legacy company from the family business dealing with real estate investments in Hong Kong.

#### IAG / École Polytechnique Fédérale de Lausanne (EPFL)

Project Specialist 2013 (Completed)

Completed the critical review of aerodynamic heating models for re-entry of a space object and wrote computer programs for technical calculations. It was part of larger program of assessing the risk of property damage and human casualties due to the orbiting object re-entering the atmosphere.

#### AF-Consult Switzerland Ltd, Baden, Switzerland

Senior Engineer / Project Manager 2008-2012

Worked in the Department of Nuclear Technology as the leading expert in thermal hydraulics and safety analysis. We provided technical supports and project management to the nuclear industry for new-built, life-extension, operation, and safety analysis.

Achievements:

- Analyzed and managed technical as well as project risks.
- Participated in the European Passive Plant Project (a joint project of

- Westinghouse and European Utilities) on behalf of SwissNuclear.
- Completed enhancements of Defense-in-Depth safety systems of the Westinghouse AP1000 for European Application.
  - Reviewed the basic designs of a new IR 360 MW Pressurized Water Reactor, and prepared the program for detailed engineering designs.

**Paul Scherrer Institut, ASQ/NUM, Villigen, Switzerland**

Nuclear Engineer / Research Scientist                      2001 – 2007

The key member of the scientific research team for designing and manufacturing the worlds first Mega-Watt range liquid metal spallation neutron target, which was also a part of the joint European Initiative and a key experiment of the Accelerator Driven System for burning up high level nuclear waste.

Duties

- Analyzed and managed technical as well as project risks.
- Led the groups of safety analysis, and commissioning testing.
- Coordinated the research tasks and managed the contributions of European partners (i.e. CEA, FZK, ENEA, and SCK•CEN).
- Managed the construction of the commissioning facility.
- Conducted the thorough deterministic safety analysis together with team members.
- Planned and conducted the commissioning test and wrote the final report for irradiation license of the target.
- Wrote progress reports and final summary reports of the projects as well as technical papers.
- Communicated results through presentations to the steering committee, in project control meetings and international technical conferences.

**Paul Scherrer Institut, LTH/NES, Villigen, Switzerland**

Position: Research Fellow                                      1999-2001

**Royal Institute of Technology, Stockholm, Sweden**

Position: Research Fellow                                      1997-1999

## PERSONAL SKILLS

Results orientated  
Relationship building  
Strong technical basis  
Decision making  
Care for details  
Confident  
Flexible & adaptable  
Positive attitude

## LANGUAGES

**Chinese:** Mother tongue with high proficiency in writing and speaking

**English:** Proficiency in writing and speaking

**German:** Basic writing and speaking

**French:** beginner

## KEY SKILLS AND COMPETENCIES

### Professional attributes

- Knowledge and experience in developing and administering technical projects.
- Capable of developing projects for the full lifecycle of a power plant (nuclear or conventional).
- Strong verbal and written communication skills.
- In depth knowledge and understanding of the scientific and technical aspects of the safety requirements of power plant.
- Computer literate in technical programming, computations, and general uses of MS office and project.

### Personal attributes

- Comfortable working in a multi-cultural and international environment.
- Ability to operate under pressure and deliver to demanding deadlines.
- Good team player.
- Capable of working independently.
- Healthy set of hobbies to maintain the balance between work and family life.

## EDUCATION

**Purdue University**, West Lafayette, Indiana, USA  
Ph.D. in Nuclear Engineering – 1997

**Purdue University**, West Lafayette, Indiana, USA  
M.S. in Nuclear Engineering – 1994

**Polytechnic University**, Brooklyn, New York, USA  
(Presently known as New York University, Polytechnics)  
M.S. in Electro-Physics – 1989

**Polytechnic University**, Brooklyn, New York, USA  
(Presently known as New York University, Polytechnics)  
B.S. in Electrical Engineering – 1989

## REFERENCE

Will be furnished upon request