

## Hartanto Wibowo

Box # 2601, Carleton University Residence  
1233 Colonel By Drive  
Ottawa K1S 5B7  
Ontario, Canada  
1-(613)-265-8817  
hartanto\_wib@hotmail.com, hwibowo@connect.carleton.ca

### EDUCATION

**Master of Applied Science in Civil Engineering** September 2007 – Present

Major: Structural Engineering

Carleton University

Ottawa, Ontario, Canada

- Courses taken: Dynamics of Structures, Seismic Analysis and Design of Reinforced Concrete Structures, Finite Element Method in Field Problems, Introductory Elasticity, Earthquake Engineering, Geotechnical Earthquake Engineering, Engineering Seismology, Prestressed Concrete
- Master's Thesis (ongoing): about seismic progressive collapse analysis on RC bridges

**Bachelor of Engineering in Civil Engineering (Cum Laude)** August 2003 – January 2007

Major: Structural Engineering

Petra Christian University

Surabaya, East Java, Indonesia

- Cumulative GPA: 3.51/4.00
- List of students with achievements
- Undergraduate Thesis: *“Evaluation of Modal Pushover Analysis on a First Mode Dominant Reinforced Concrete Moment Resisting Frame”*

### AVAILABILITY

September 2009.

### SKILLS

#### Communication/Interpersonal

- Successfully wrote several research papers, term papers, and undergraduate thesis.
- Successfully presented and defended thesis before advisors and second readers.
- Experience with writing project report, paper, and presentation.
- Effectively directed seminars for groups of undergraduate students.
- As a laboratory assistant, assisted in helping to provide instructions and advice to students on software practice related to civil engineering.
- Language ability: English (Fluent), Indonesian (Fluent), Mandarin (Moderate), French (Moderate), and several traditional languages.

## Research

- Knowledge of quantitative and qualitative research methods.
- Successfully developed a major research related to comparison of seismic analysis procedures for Seismic Analysis and Design of Reinforced Concrete Structures course.
- Successfully developed a major research related to seismic analysis of bridges for Earthquake Engineering course.
- Experience with structural engineering software packages.
- Conducted extensive research on the static nonlinear analysis of buildings as part of undergraduate research.
- Familiar with reinforced concrete and steel designs and analyses.

## Software

- Microsoft Office
- CSI Software: SAP 2000, ETABS, Section Designer
- ACECOMS Software: GRAPS, GEAR, BATS 2001
- ASI Software: Extreme Loading for Structures
- CAL, MATLAB
- C++
- SHAKE
- AutoCAD
- Various other software for research

## WORK EXPERIENCES

*Teaching Assistant* October 2008 – April 2009  
Carleton University – Department of Civil and Environmental Engineering  
Course: Introduction to Structural Design (3<sup>rd</sup> year) and Mechanics I (1<sup>st</sup> year)

*Research Assistant* September 2008 – Present  
Carleton University – Department of Civil and Environmental Engineering  
Supervisor: Prof. David T. Lau, Ph.D.

*Freelance Structural Engineer* May 2007 – August 2007  
Surabaya, East Java, Indonesia

*Proctor* August 2006 – May 2007  
Petra Christian University

*Teaching Assistant* January 2006 – May 2007  
Petra Christian University – Department of Civil Engineering  
Course: Programming Language (2<sup>nd</sup> year)

*Laboratory Assistant* August 2005 – January 2007  
Petra Christian University – Department of Civil Engineering  
Laboratory: Asian Center for Engineering Computation and Software – Satellite Petra

## PUBLICATIONS

- Ariestasia, S. and **Wibowo, H.** (2006). *Module of Laboratory Session for Programming Language Course*. Surabaya: Petra Christian University.
- Muljati, I., Lumantarna, B., Hadiwijaya, I. J., and **Wibowo, H.** (2007). Performance of Modal Pushover Analysis on a First Mode Dominant Moment Resisting Frame. *Proceedings of the 1<sup>st</sup> International Conference of European Asian Civil Engineering Forum*, Paper No. EACEF-128, pp. C235-C241. Jakarta, 26-27 September.
- Wibowo, H.** and Lau, D. T. (2009). Seismic Progressive Collapse: Qualitative Point of View. *Civil Engineering Dimension*, 11 (1), pp. 8-14.
- Wibowo, H.**, Reshotkina, S. S., and Lau, D. T. (2009). Modelling Progressive Collapse of RC Bridges during Earthquakes. *Proceedings of CSCE Annual General Conference: On the Leading Edge*, St. John's, NL, May 27-30.
- Wibowo, H.** and Lau, D. T. (2010). Seismic Progressive Collapse Analysis on Reinforced Concrete Bridges. (*In progress*, the 9<sup>th</sup> US National Conference and 10<sup>th</sup> Canadian Conference on Earthquake Engineering: Reaching beyond Borders, Toronto, Canada, July 25-29).

## REFERENCES

Available upon request.