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To Whom It May Concern:

Lo Kwok Hung (Student No.: 01900325R)

Mr Lo Kwok Hung registered as a full-time student for the Degree of Master of Philosophy at The Hong Kong Polytechnic University on 1 September 2001. The medium of instruction of the University is English. He was attached to the Department of Civil and Structural Engineering undertaking a research project entitled *3D Simulation Model and Experiment on the Deposition Fan of Debris Flow for Risk Assessment and Design of Protective Barrier*.

Mr Lo submitted a thesis entitled *Theoretical Simulations of Debris Flow and Their Applications to Hazard Mapping Using GIS* in August 2003. An oral examination was held on 16 January 2004. The Research Committee of the University confirmed on 20 May 2004 that he be awarded the Degree of Master of Philosophy. He was presented for conferment of this degree at The Hong Kong Polytechnic University's 10th Congregation held on 24 November 2004.

Yours faithfully

THE HONG KONG POLYTECHNIC UNIVERSITY 香港理工大學 RESEARCH OFFICE 研究事務處

Miss Tina Yeung
Acting Head
Research Office

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Prof. Xu You-lin
MEngSc, PhD, MASCE, FHKIE

September 17, 2010

TO WHOM IT MAY CONCERN

RE: Mr. Lo, Kwok Hung (Harry) HKID No.: D858296(4)

I am writing to certify that Mr. Lo Kwok Hung has completed his MPhil studies under my supervision and has worked for me as a Research Assistant as summarized below:

Positions	Periods	Projects	Duties
Research Student	1 Sept 2001 to 20 May 2004	3D Simulation Model and Experiment on the Deposition Fan of Debris Flow for Risk Assessment and Design of Protective Barrier	- conduced debris-flow research; - published and/or presented papers listed on the enclosure; - assisted students in their final year projects; and - marked students' assignments.
Research Assistant	2 Jan 2004 to 30 Sept 2004	A GIS-based Landslide Hazard Assessment System	- compiled computer program; and - incorporated GIS with Fortran simulations.
Research Assistant	15 Oct 2004 to 30 Nov 2004	A nonlinear Slider-block Model for Landslides	- compiled computer program; and - incorporated GIS with Fortran simulations.

Professor Chau, Kam Tim, PhD
Associate Dean, Faculty of Construction and Land Use,
Chair Professor of Geotechnical Engineering
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encl.: List of Publications

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講座教授及系主任
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Chair Professor and Head
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List of Publications

Chau, K.T. and Lo, K. H. (2005). "Author's reply to discussion on "Hazard assessment of debris flows for Leung King Estate of Hong Kong by incorporating GIS with numerical simulations" by S. Parry, M. E. Ruse and S. J. Williamson." *Natural Hazards and Earth System Sciences*, Vol. 5, No. 1, pp. 25–27 (SCI journal published by European Geosciences Union). [http://www.nat-hazards-earth-syst-sci.net/5/25/2005/nhess-5-25-2005.pdf]

Chau, K.T. and Lo, K.H. (2004). "Hazard assessment of debris flows for Leung King Estate of Hong Kong by incorporating GIS with numerical simulations." *Natural Hazards and Earth System Sciences*, Vol. 4, No. 1, pp. 103-116 (SCI journal published by European Geosciences Union). [http://www.nat-hazards-earth-syst-sci.net/4/103/2004/nhess-4-103-2004.pdf]

Chau, K.T. and Lo, K.H. (2003). "Application of GIS system and numerical simulations in debris flow and landslide hazard estimation." *The 3rd Cross-Strait Conference on Structural and Geotechnical Engineering*, October. 23-25, 2003, Taipei, pp. 527-534.

Lin, H.Y., Chau, K.T., Lee, C.M., Lo, K.H. and Wong, R.H.C. (2003). "Landslide evidences and geological history of the northeastern flank of Tsing Shan." *International Conference on Slope Engineering*, December 8-10, 2003, Hong Kong (ed. by C.F. Lee L.G. Tham), pp. 405-410.

Lo, K.H. and Chau, K.T. (2003). "Computer simulations of debris flow hazard for Leung King Estate, Tuen Mun." *International Conference on Slope Engineering*, December 8-10, 2003, Hong Kong (ed. by C.F. Lee L.G. Tham), pp. 732-737.

Lo, K.H. and Chau, K.T. (2003). "Debris flow simulations for Tsing Shan in Hong Kong." *Third International Conference on Debris Flow Hazards Mitigation: Mechanics, Prediction and Assessment*, September 10-12, 2003, Davos, Switzerland, (ed. by D. Rickenmann & C.L. Chen), Vol. 1, pp. 577-588, Millpress, Rotterdam. [http://www.millpress.nl/shop/abooks/DHFM/pdf/D2_03.pdf]

Oral presentations on the following publications were given by Mr. Lo, Kwok Hung at the corresponding events.

Chau, K.T. and Lo, K.H. (2004). "The onset of soil erosion on slopes induced by debris flows." *Hong Kong Society of Theoretical and Applied Mechanics, Annual Meeting*, March 6, 2004, City University, Hong Kong, pp. 14. [http://www.hkstam.org.hk/paper04/14.htm]

Chau, K.T. and Lo, K.H. (2003). "Debris flow hazard assessment for Leung King Estate of Hong Kong incorporating GIS with numerical simulations." *EGS-AGU-EUG Joint Assembly, NH 19-Landslide and Flood Risk*, April 7-11, 2003, Nice, France, pp. 449, EAE03-A-08030; NH19-1TH3O-003 (Geophysical Research Abstracts, Vol. 5, 08030, 2003), ISSN: 1029-7006. [http://www.cosis.net/abstracts/EAE03/08030/EAE03-J-08030.pdf?PHPSESSID=c7702a016915891c117e630f6ed25e99]

Lo, K.H. and Chau, K.T. (2004). "The initiation erosion criterion of debris flows." *Joint AOGS 1st Annual Meeting & 2nd APHW Conference*, July 5-9, 2004, Singapore, Abstract Book, Vol. I, pp. 626-627. [http://www.asiaoceania.org/pdf/NH/57-ONH-A1093.pdf]

Lo, K.H. (2004). "Theoretical simulations of debris flow and their applications to hazard mapping using GIS." *MPhil Thesis, The Hong Kong Polytechnic University*, Hong Kong, 129 pp. [http://library.polyu.edu.hk/search/X?SEARCH=a:(Lo%2C%20Kwok%20Hung)&searchscope=6&SORT=D]

Lo, K.H. and Chau, K.T. (2003). "Incorporation of geographic information system (GIS) and numerical simulations for debris flow hazard assessment." *Hong Kong Society of Theoretical and Applied Mechanics, Annual Meeting*, March 8, 2003, City University, Hong Kong, pp. 26. [http://www.hkstam.org.hk/paper03/26.htm]

Lo, K. H. and Chau, K.T. (2002). "Numerical simulations of deposition fan of the 1990 Tsing Shan Debris flow." *Hong Kong Society of Theoretical and Applied Mechanics, Annual Meeting*, March 9, 2002, Hong Kong, pp. 23.

Professor Chau, Kam Tim, PhD