

**HAY Rotana (DOB: 10 January 1984)**

**Mailing Address**

4 Tanjong Pagar Plaza,  
#18-21  
Singapore, 081004

**Permanent Address**

#10D, Street 402, Sangkat Tum Nub  
Tek, Khan Chamkamorn, Phnom  
Penh, Cambodia

---

**OBJECTIVE**

My life-long goal is to seem and implement advanced technical knowledge in design and construction of concrete structures for a sustainable development of the society.

---

**EXPERIENCE**

**Graduate Engineer, Arup Singapore Pte Ltd**

Jan 2010-present

- Designed precast high-rise public housing building
- Designed and checked long-term deflection for slabs of a commercial building
- Prepared structural layout, designed beams and prepared scheduling for a condominium project
- Conducted checks of existing structure for additional loads and proposed retrofitting measures
- Designed members and connections for a skypark shade structure
- Modeled high-rise building towers for lateral deflection checks
- Proposed structural scheme for a public housing project

**Intern, Kellog Brown & Root Asia Pacific Pte Ltd, Singapore**

May-Jul 2007

- Conducted equipment checklist for a petrochemical plant
- Prepared weight control report of an offshore platform
- Designed a telecommunications tower by using Structural Analysis Software (SACS)

---

**EDUCATION**

**Imperial College London, UK**

2008-2009

- Master of Science in Concrete Structures and Business Management (Distinction)

**National University of Singapore (NUS), Singapore**

2003-2008

- Bachelor of Civil Engineering (concentration in Structural Analysis and Design) with Economics Minor (Honors)

**Institute of Technology of Cambodia, Cambodia**

2002-2003

- Bachelor of Engineering (Common)

---

**LANGUAGES**

- |  |           |
|--|-----------|
| ▪ Toefl iBT: Writing 25, Listening 28, Reading 27, Speaking 22 | Jul 2010  |
| ▪ GRE: Writing 4.5, Verbal 490, Quantitative 800               | Jul 2010  |
| ▪ French (Intermediate Class, Imperial College)                | 2008-2009 |

---

**COMPUTER SKILLS**

**Ordinary Application Competencies**

- Microsoft Word, Excel, PowerPoint, Flash, Firework, Photoshop and Dreamweaver

### **Structural Analysis Competencies**

- ANSYS, SACS, SAP2000, STAADPro, USFOS, GSA, ADSEC, ADC, SAFE, SE-CAD

---

### **PROFESSIONAL AND TRANSFERRABLE TRAINING**

---

|  |              |
|--|--------------|
| <b>Introduction to Design of Concrete Structures with Eurocodes, Arup Singapore</b>  | Mar 2010     |
| <ul style="list-style-type: none"><li>▪ Design concept for bending, shear, torsion</li></ul>   |              |
| <b>Presentation Skills, Imperial College London</b>  | Nov 2008     |
| <ul style="list-style-type: none"><li>▪ Technical presentation</li><li>▪ Developing natural ability for presentation</li></ul>   |              |
| <b>Reference Management, Imperial College London</b>   | Dec 2008     |
| <ul style="list-style-type: none"><li>▪ EndNote and Reference Manager</li></ul>  |              |
| <b>Professional Communication Course, NUS, Singapore</b>   | Aug-Nov 2007 |
| <ul style="list-style-type: none"><li>▪ Learnt and practiced effective communication theories at work</li><li>▪ Composed convincing report, letters, emails, memos and minutes</li></ul> |              |

---

### **AWARDS**

---

|   |           |
|---|-----------|
| <ul style="list-style-type: none"><li>▪ Gyebi Kufour memorial prize for excellence in concrete structures and technology, Imperial College</li></ul>          | 2010      |
| <ul style="list-style-type: none"><li>▪ Shell Centenary Scholarship</li></ul>   | 2008-2009 |
| <ul style="list-style-type: none"><li>▪ PEB Gold medal for Student with Distinguished Record in Extra Curricular Activities and Public Service, NUS</li></ul> | 2007-2008 |
| <ul style="list-style-type: none"><li>▪ IAHR Hydraulics Medal, NUS</li></ul>  | 2007-2008 |
| <ul style="list-style-type: none"><li>▪ Top 5% List: 6 Consecutive Semesters, NUS</li></ul>   | 2004-2007 |
| <ul style="list-style-type: none"><li>▪ Scholarship Winner from Ministry of Foreign Affairs (Singapore) for ASEAN scholars</li></ul>                          | 2003      |
| <ul style="list-style-type: none"><li>▪ Bronze Medal for National Mathematics Competition (Cambodia)</li></ul>  | 2002      |

---

### **CO-CURRICULA ACTIVITIES**

---

|   |           |
|---|-----------|
| <ul style="list-style-type: none"><li>▪ Hospital Volunteer, NUS</li></ul>                                       | 2007-2008 |
| <ul style="list-style-type: none"><li>▪ Team Leader: ExxonMobil Campus Concerts, NUS</li></ul>                  | 2006-2007 |
| <ul style="list-style-type: none"><li>▪ Head: International Orientation Committee, IRC, NUS</li></ul>           | 2006-2007 |
| <ul style="list-style-type: none"><li>▪ Chief of Liaison: NUS Mekong Trip to Cambodia, NUS</li></ul>            | 2006-2007 |
| <ul style="list-style-type: none"><li>▪ Member: CE Sub-Club Management Committee</li></ul>                      | 2005-2006 |
| <ul style="list-style-type: none"><li>▪ Layout artist: Ridge Sub Committee and Engin Publication, NUS</li></ul> | 2005-2006 |
| <ul style="list-style-type: none"><li>▪ Member: Photographic Society, NUS</li></ul>                             | 2005-2006 |
| <ul style="list-style-type: none"><li>▪ Member: NUSSU Welfare Committee</li></ul>                               | 2004-2005 |
| <ul style="list-style-type: none"><li>▪ Member: Steering Committee, NUS</li></ul>                               | 2004-2005 |

---

### **INTERESTS**

---

- Reading, gardening, photography, web design and creative arts
- Sports including jogging and tennis

---

### **REFERENCE**

---

- Available upon request