

# Mohanadas Harish Chandar



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Born: October 23, 1985—Singapore

Nationality: Singaporean

National Service Status: Completed

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## Education

- 2011 BEng (Civil), National University of Singapore (2nd Upper Honours)
- 2003 'A' Levels, Victoria Junior College, Singapore (3 A, 1 B, 1 'S' Paper Merit)
- 2001 'O' Levels, Victoria School, Singapore (7 A1, 1 A2, 1 B3)
- 1997 PSLE, St Gabriel's Primary School, Singapore
- 1995 Yr. 5, St John's School, Scarborough, Western Australia

## Honors & awards

- 2009 Dean's List, Academic Year 2008/2009 Semester 2
- 2009 HDB Book Prize—2nd prize for a beam design competition
- 2002 SINDA Academic Excellence Award—for outstanding performance in GCE 'O' Levels
- 2001 Victoria School GCE 'O' Level Award
- 2001 Distinguished Service Award (Monitors' Council)
- 2001 Meritorious Service Award (National Cadet Corps (Land))
- 2001 School Subject Prize (Best in Design and Technology)
- 1996–2001 Edusave Scholarships, Ministry of Education
- 2000 School Subject Prize (Best in Tamil Language)
- 2000 Singapore East Zone School Sports Council Team Award—for National 4th in Cricket
- 1999 Top Student Award (3rd in Standard)

## Publications

- 2009 Mohanadas, H. C. (2009), "Basic behaviour study of cement treated Singapore marine clay", *14th National Undergraduate Research Opportunities Programme Congress (NUROPC 2009)*, National University of Singapore, 18 February 2009. [\[PDF\]](#)

## Positions held

- 2009–2011 Member, Ground-Up Initiative—humanitarian and environmental NGO
- 2006–now Section Commander (Reservist), 778 SIR, Singapore Armed Forces
- 2004–2006 Section Commander, 5 SIR, Singapore Armed Forces
- 2002–2003 Councillor, 19th Students' Council, Victoria Junior College—lead students during match supports; was on organising committees of Council Investiture and Senior Farewell
- 2000–2001 Head of Welfare, Monitors' Council, Victoria School
- 2000–2001 Outdoor Pursuit Camp Instructor, Victoria School—lead peers and juniors during outdoor camping trips
- 2000–2001 Staff Sergeant, National Cadet Corps (Land)—2nd highest rank obtainable

## Competitions

- 2001 Distinction, International Science Competition for Schools, Uni. of New South Wales
- 2000 National Champion, National Cadet Corps Shooting Competition
- 2000 National 4th, Cricket
- 1995 High Distinction, Primary Schools Mathematics Competition, Uni. of New South Wales

## Work experience

- 1 June 2011–  
present **Research Engineer, National University of Singapore**  
Currently working on two multidisciplinary projects, one involving wetland conservation and the other involving river restoration. I am developing expertise in groundwater and streamflow modeling, eco-friendly hydraulic design, and hydrological fieldwork techniques.
- 10 May 2010–  
31 Jul 2010 **Engineer Intern, Engineers 9000 Pte Ltd, Singapore**  
Designed a small concrete bridge with steel guardrails. Verified changes to drawings and calculations for industrial structures, checking for structural stability and adequacy. Reported discrepancies to supervising engineer and recommended modifications. Gained experience in detailing reinforced concrete members and designing steel connections. Gained basic understanding about document submission procedures to regulatory authorities for civil and structural works.
- 10 May 2007–  
18 Jul 2007 **Waterpark Lifeguard, Kings Dominion, Virginia, USA**  
Experienced working in a multicultural environment in the USA, as part of a work and travel programme. Worked hand in hand with the local Americans and other foreigners from Asia, Eastern Europe and South America. Was awarded “Guard of the Week”.
- 31 Aug 2004–  
15 Mar 2006 **Section Commander, 5th Singapore Infantry Regiment, Singapore Armed Forces**  
Lead and ensured the operational readiness and welfare of a 7-person combat section. Understood what it takes to train, lead and manage teams under difficult and stressful situations. Understood what it takes to gain the respect of one's superiors and subordinates at the same time.

## Hobbies and interests

- 2009–present **Urban Farming, Gardening and Permaculture**  
Assisted a local NGO—Ground Up Initiative—in setting up a rooftop garden concept model. Volunteered at local farms and community gardens, and attended courses in Permaculture design. Learnt critical observation skills and patience, and experienced working with nature.
- 2007–present **Libre and Open Source Software**  
Great interest and considerable experience with libre and open source software such as Linux (operating system), GnuCash (finance), GIMP (image editing), and FreeMind (mind mapping). Opened my mind towards exploring alternatives and adapting them to my workflows to improve productivity.

## Skills

- 2008–present **Technical Document Typesetting**  
Skilled at typesetting professional looking technical documents, particularly those that are long and complex, and contain several equations, tables, figures, cross-references, etc.. Cultivated an appreciation of aesthetics and a large degree of meticulousness when required.

### Productivity Software

- Excellent Microsoft Office, OpenOffice, Internet and Email applications  
Good Linux—operating system  
Good GnuCash—finance  
Good Vim—text editing  
Good IkiWiki—website creation  
Good GIMP—image editing  
Good LaTeX—technical writing and typesetting  
Fair Bazaar—document version control

### Engineering Software

- Excellent COMSOL Multiphysics—multiphysics modeling  
Fair Plaxis and SIGMA/W—geotechnical modeling  
Good SIDRA—transportation and traffic modeling  
Good USFOS—offshore structural modeling  
Good BEAMD—beam design  
Fair STAAD.Pro—structural design  
Good AutoCAD and QCAD—drafting  
Good Primavera—project management  
Good GRASS GIS, ArcGIS and TNTmips—geographical information systems and remote sensing

### Languages

- Excellent English  
Excellent Tamil

## References

### **Professor Somsak Swaddiwudhipong**

*Deputy Head (Academic)*

Dept. of Civil and Environmental Engrg.

National University of Singapore

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### **Additional References**

Available on request.