

LATIFAH HAMZAH

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Selangor, Malaysia

- Education** **Massachusetts Institute of Technology**, Cambridge, MA June 2012
Candidate for B.S. in Mechanical Engineering. Minors in Energy and Music. GPA 5.0/5.0.
Relevant Coursework: Mechanics, Materials, Thermal-Fluids, Dynamics, Advanced Energy Conversion.
Awards: Gordon Engineering Leader, Emerson Music Scholarship, Burchard Scholar, MIT International Science and Technology Initiative 2.0 Grant Winner, MIT Concerto Competition 2010 Winner.
- University of Cambridge**, England, UK June 2011
Participated in Cambridge-MIT Exchange, read Third Year Engineering Tripos.
Relevant Coursework: Machine Design, Thermodynamics, Heat & Mass Transfer, Fluid Mechanics.
Awards: Lady Dacre Music Prize, World Theatre Show (Ger) Winners, Badminton Cuppers Champions.
- Sevenoaks School**, England, UK May 2008
Achieved maximum 45/45 points in May 2008 International Baccalaureate Examinations.
Awards: Major Academic & Music Scholar; Maths & Creatives Faculty Prize, Science Merit Prize.
- Experience** **Shell Refining Company (FOM) Sdn. Bhd.**, *Inspections Trainee*, Malaysia July – Aug 2011
Investigated susceptibility of equipment built without consideration to but operated in regimes sensitive to low temperature brittle fracture for entire plant. Analysed results and provided recommendations.
- Goldstein Lab Undergraduate Research**, Cambridge, England Sept 2010 – June 2011
Assembled a tracking microscope to study the effect of viscoelastic fluid flows on free-swimming organisms (*Volvox*) in its own reference frame.
- Université Catholique de Louvain**, *Visiting Researcher*, Belgium May – Aug 2009, 2010
2010: Won MISTI 2.0 grant to develop a population connectivity model for the Great Barrier Reef (GBR), harnessing the Second-Generation Louvain-la-Neuve Ice-Ocean Model. Worked with James Cook University and the Australian Institute of Marine Science.
2009: Researched open boundary condition to reproduce tidal & low frequency circulations on GBR. Also used Particle Image & Tracking Velocimetry to study dam-break flows.
- MIT Design, Build, Fly**, Cambridge, MA Aug 2008 – April 2010
Assisted with prototype making and testing, leading to optimisation of assembly and handling. Placed 4th in the 2009 Cessna/Raytheon Missile Systems Student DBF Competition.
- Rolls-Royce**, *Field Support Office Technical Support Intern*, Selangor, Malaysia Aug 2007
Investigated the oil, fuel, air, hydraulic, anti-ice and anti-fire systems of Trent 800 engines. Created oil consumption charts and assisted with servicing and repair of engines.
- Community Service** **STIMULUS**, *Teaching Assistant*, Cambridge, UK Jan – June 2011
Offered weekly assistance in Maths and Literacy to the Year 4 class at Ridgefield Primary School, providing additional support to weaker children and a newly-arrived Romanian child.
- Students for Bhopal**, Cambridge, MA Jan 2010 – Present
Work in conjunction with the International Campaign for Justice in Bhopal to raise funds and awareness of the current situation. Aim to find a long-term solution to the water issue.
- Alpha Phi Omega**, *Service VP (Dec 09 – May 10)*, Cambridge, MA Jan 2009 – May 2010
Conducts weekly service projects in the Boston area. Raised \$3,893.73 for Partners in Health as Big Screw Chair 2010. Campus Book Exchange inventoried over 2000 books, serving over 500 customers.
- Heartstrings Concerts**, *Violinist*, Selangor, Malaysia 1998, 2002, 2006
Performed at concerts and recorded a solo CD to raise RM100,000 ~ USD30,000 to benefit children's homes and purchase a ventilator for the Paediatric ICU of University Hospital.
- Activities** **Music**, *Violinist*, Cambridge, MA and England, UK Dec 1993 – Present
Gave solo recital in April 2010. Principal 2nd violin, CUSO. Member of MIT Chamber Music Society.
- Football**, *Striker/Wide Midfielder*, England, UK Sept 2006 – June 2011
Second-team, University of Cambridge. Semi-finalists, Senior Cup, Independent Schools' FA (2008).
- Skills** **Languages:** English, Chinese–Mandarin, Malay, French, German
Computer: MS Office, Python, LaTeX, MATLAB, ProDesktop, SolidWorks, JACOBIAN, HTML