

SIFAT MOMEN

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Current Status: Pursuing Doctoral degree in Computer Science at the University of Sheffield.

Education:

Oct 2007 – present – **PhD in Computer Science** (Ongoing)
University of Sheffield, Sheffield, UK
Research Group: **Neurocomputing and Robotics Group** (NRG)
Research Area: Swarm Robotics, Swarm Intelligence

2005-2006 **MSc Electronics and Information Technology**
Sheffield Hallam University, Sheffield, UK
Awarded **distinction**

1999-2003 **BS (Hons) Computer Science**
North South University, Dhaka, Bangladesh
First class Honours degree

Scholarships: **PhD:** University of Sheffield Studentship
MSc: Obtained a scholarship of £2500 from the School of Engineering, Sheffield Hallam University

Publications:

1. *Detection and Counting of Red Blood Cells and White Blood Cells through Image Processing*, 9th International
2. *Mixed Species Flocking for Heterogeneous Robotic Swarms*, IEEE Eurocon 2007: The International Conference on Computer as a Tool, pp: 2329 – 2336, Warsaw, Poland (2007)
3. *An Ant-like Task Allocation Model For Heterogeneous Groups of Robots*, IUSSI 2008: 4th European Meeting of the International Union for the study of Social Insects, pp: 117, La-Roche-en-Ardenne, Belgium
4. *An Ant-like Task Allocation Model For A Swarm of Heterogeneous Robots*, The 2nd Swarm Intelligence Algorithms and Applications Symposium (SIAAS 2009), AISB 2009 convention, pp: 31 – 38, Edinburgh, Scotland, 6 – 9 April 2009

Conference on Computer and Information Technology
(ICCIT), Dhaka, Bangladesh (2006)

Membership: Currently a member of the WWR (Walking With Robots) network

- Public Engagement:**
1. Public Engagement Workshop in Animatronics, Artificial Intelligence and Robotics at Bristol, 18 – 20 Feb. 2008
 2. Computer Science Spring Workshop – Enthusing the next Generation: Hosted by the University of Manchester, 21 – 22 May 2008, Invited to give a talk on how to engage swarm robotics with public (especially to high school children)
 3. Cheltenham Science Festival, 4 – 8 June, 2008

Work Experience:

- 2008
(November – December) – **School of Biological Sciences**
University of Bristol
Research Associate
- 2008 – 2009 – **University of Sheffield**
Teaching Assistant
COM 162: Object Oriented Design and Programming with Java
COM 1080: Artificial Intelligence Techniques
- 2007 (April) – **University of Information Technology and Sciences (UITS):**
2007 (Oct) Dhaka, Bangladesh
Lecturer
School of Computer Science and Engineering (SCSE)
Modules Delivered: Introduction to Artificial Intelligence,
Computer Networking and Programming
- 2006 (April) – **Microsystems and Machine Vision Laboratory (MMVL):**
2007 (March) Sheffield Hallam University, UK
Research Assistant (Honorary)
- 2003-2004 – **Cephalon International School**
Dhaka, Bangladesh
Worked as an academic counsellor
- 1999-2004 – **Cephalon International School**
Dhaka, Bangladesh
Worked as a Senior teacher of Physics and Computer Science (to high school children).

Computing

Background: **Programming Languages:** C, C++, Java, Matlab, VB 6.0

Modelling and Simulation: Netlogo (Multi-agent Simulator), Webots (Mobile Robotics Simulation Software), Packet Tracer (A network simulator), Ethereal (Packet analysing simulation software)

Scripting Languages: HTML, JavaScript, ASP, PHP.

Areas of Interest: *Robotics (more specifically swarm robotics), Artificial Intelligence, Modelling and Simulation, Programming Language Principles.*

References: Available on Request