Curriculum Vitae

Madhur Khandelwal

Personal Details

Name — Madhur Khandelwal

Date of Birth — August 06, 1983
Sex — Male
Nationality — Indian
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Undergraduate Institution

Department of Design
Indian Institute of Technology, Guwahati

Test Scores

GRE: 1450/1600 (V: 650/800; Q: 800/800; A: 5/6)
TOEFL: 290/300

Academic Details — Completed Bachelor of Design course (4 yrs) with specialization in Communication Design in May 2004.
Departmental rank: 1
Secured a CPI of 8.64/10 in 8 semesters of study

Computer skills

Languages — Elementary C, HTML, DHTML, Javascript, PHP/SQL.

O/S — OSX, Unix, Windows9x/NT/2000/XP and DOS.

Application Softwares

Graphics and Image Processing
Photoshop, CorelDRAW, Freehand, Illustrator, Pagemaker
2D Animation
Flash (+actionscript), Director(+Lingo)
3D Rendering and Animation
3D Studio Max, Rhinocerous
Website Development
Dreamweaver (UltraDev), Frontpage

Also undertaken courses in Data Structures and Software Engineering.

Areas of interest — Interaction design, Tangible Media,
New Media, Graphic design, User Interface design,
Visualization and Imaging.

Relevant courses taken

Fundamentals of design, History of design,
Interaction design,
Graphic design, Information design,
Advanced computer graphics,
Exhibition design,
Animation and multimedia,
Indian symbology and communication,
Psychology and Behavioral Sciences,
Design methodology, Design analysis,
Corporate Identity program,
Digital photography, Videography,
Design management,
Human factors and Visual ergonomics,
Semantics & Communication theory.

⬐ Detailed Project Profile

- Interaction Design -

- Development and installation of a physical timeline cursor depicting the life and events of Mahatma Gandhi in a linear timeline manner. The final product consisted of hardware support of movable LCDs and motion sensors, with the backend interactive software of providing viewers with options to see various media for each year giving information about the life of the personality,
Project Guide: Mr. Ranjit Makkuni (Xerox PARC, USA)

- Analysis of new technologies coming in the field of communications and ubiquitous computing.
Project Guide: Sr. Lec. Khyati Nagar

- Analysis and design of the GUI for device to help students organize and keep a record of their academic, financial and personal data.
Project Guide: Prof. R. Mohanty

- Design of interface for mental imagery puzzles and experiments on user to test the usage of visualization methods for problem solving.
Project Guide: Prof. U. A. Athvaankar (IDC, IIT Bombay)

- Thesis project on identifying cultural dimensions in interaction scenarios for enhanced experience in Culture-Specific Interactions (CSI).
Project Guide: Sr. Lec. Khyati Nagar

- Researching the theme of kinetics and interactivity. The explorations culminated in the design of an automaton presenting the Indian mythological story of Ramayana through mechanical movements.
Project Guide: Mr. Gaurav Chadha

- Experience Design -

- Designing the CD-ROM to create complete experience of relaxation through proper use of different mediums. The multimedia work can be used either for learning yoga asanaas or having a companion to practice yoga.
Project Guide: Sr. Lec. Mandar Rane

- Researching the possibilities of creating enhanced living experience through the use of future technologies for human identification. Project culminated in creation of personas and scenarios depicting design of the whole experience.
Project Guide: Prof. Kirti Trivedi (IDC, IIT Bombay)

- Documentation of social artifacts of a nearby village in digital media to deliver the culturally enriching experience of viewing and deriving information about these artifacts in an environment walkthrough.
Project Guide: Assoc. Prof. Ravi Mokashi

- Website Design -

- Group project on designing the website of Department of Design.
URL: http://www.iitg.ac.in/design
Project guide: Prof. Ravi Pooviah (IDC, IIT Bombay)

- The Intranet Website of Indian Institute of Technology, Guwahati.
URL: http://intranet.iitg.ernet.in (access available only in IIT Guwahati)

- Currently involved in designing the website of IIT Guwahati.
URL: http://www.iitg.ac.in

- Currently involved in designing the information and resource sharing portal for students of IIT Guwahati.
URL: http://www.iitg.ac.in/studs

- Design of the website for Cepstrum, the electronics society of IIT Guwahati
URL: http://intranet.iitg.ac.in/cepstrum (access available only in IIT Guwahati)

- Design of the webspaces for Prakriti (the IIT Guwahati environmental society), Manthan2002 (the intra-IIT cultural festival) and Alcheringa2003 (the IIT Guwahati cultural festival).

Print Design

A brochure about the basics of Internet working and various technological components of the WWW.
Project Guide: Prof. S.Nadkarni

Designing of all the documentarial and promotional print material for the Alcheringa 2003, the cultural festival of the IIT Guwahati.

Designing of a tourist map of the city of Barcelona, with all the information about the modes of travel in the city. This assignment culminated in incorporating of the above map into a compact brochure for the tourists.
Project Guide: Prof. Mahendra Patel (National Institute of Design)

Designing two issues of Besides- the IIT Guwahati biannual periodical containing campus news and other compositions from the student of the institute.

Exhibition Design

The design of an exhibition to inspire and educate designers and engineers about using bionic principles and forms to arrive at innovative mechanisms and product functioning solutions.
Project Guide: Prof. S.Nadkarni

Design of panels and other graphic materials for 'Agoli-bah' - an exhibition put up by the Department of Design to showcase the use of bamboo as a material for designing affordable and environment-friendly products.
Project Guide: Prof. S.Nadkarni, Assoc. Prof. R. Mokashi, Sr. Lec. Mandar Rane

Corporate Identity

Creation of the identity for NIRD (National Institute of Rural Development) including logo design, stationery design and promotional planning.
Project Guide: Prof. R. Mohanty

Creation and management of the identity of Alcheringa2003, the annual cultural festival of IIT Guwahati. The works also included publicity planning and media management.

Study and development of a brand revival strategy for Purabi- the milk co-operative of Assam state by several efficient and innovative packaging and promotional solutions.
Project Guide: Prof. Pradeep Yammiyavar

Multimedia work

This project involved development of a short educational movie-pilot on pottery. The project aim was conceptualizing a part of the series in an upcoming Indian science channel on the theme 'Traditional work culture of India'.
Project Guide: Prof. C. Mokherjee (National Institute of Design)

Animation work on a mischievous child character. All the elements of the animation (including the character) were depicted by innovative use of only lines.
Project Guide: Sr. Lec. Khyati Nagar

Photography assignments including indoor photography, landscape photography, architecture photography, trick photography, slow motion photography and model photography.
Project Guide: Prof. R. Dalwadi (National Institute of Design)

Communication Theory

The group assignment involved observing a peculiar characteristic in the nearby village and taking the photographs and finally preparing a movie using the photographs in flash.
My group chose the area of religious developments in the village.
Project guide: Prof. Ravi Pooviah (IDC, IIT Bombay)

Poster Design

Design of Posters on Green Design.
My posters dealt with informing the people about the darker side of using nuclear materials for energy purposes.
Project guide: Prof. Ravi Pooviah (IDC, IIT Bombay)

Design of an Information poster to represent various attributes and characteristics of the students in my class.
Project Guide: Prof. Kirti Trivedi (IDC, IIT Bombay)

Design of a semantic poster showing the various ornamentations worn by the women in the state of Uttar Pradesh in India.
Project Guide: Assoc. Prof. Ravi Mokashi

Design of a typographical poster to express my views on the September 11 attack on WTC in 2001.
Project Guide: Prof. G. V. Sreekumar (IDC, IIT Bombay)

Typography

Development of a Devanaagri typeface viewable on low-resolution mobile screens and LCD screens, for writing and communication in Hindi language.
Project Guide: Sr. Lec. Mandar Rane

Various assignments covering most of the aspects of typography, including font structure analysis, composition, metamorphosis, logo design and use of typography in Multimedia.
Project Guide: Prof. G. V. Sreekumar (IDC, IIT Bombay)

↘ Corporate Experience / Internships

- **Sacred World Research Laboratories** (New Delhi)   *Spring+Summer **2004***
  Research and application development in the field of physical interactivity and Ubicomp. Project work included development of a physical cursor timeline browser to experience events in life of Mahatma Gandhi.

- **Industrial Design Centre** (IIT Bombay)   *Summer **2003***
  The project involved experimenting on users to measure their mental imagery and their psychological differences among process thinking of various user groups.

- **Onio Design** (Graphic design firm: Pune, India)   *Summer **2002***
  Was involved in various ongoing graphic design projects including design of an annual report (Kale Industries Annual Report), design of two websites: ITERNIA communications & Zip Phones Ltd, posters for Zip telecom etc.

- **Dainik Jagran** (Hindi Daily newspaper with highest readership in India)   *Summer **2001***
  I gained knowledge about different types of printing processes currently used and an overview of the advertising industry.

- **Saturn Advertising** (Kanpur)   *Summer **2001***
  My first experience of the industry, I studied various media of advertising like print, transparency, banner, hoardings etc. and gained knowledge about the intricacies of advertising and industry as a whole.

↘ Other Achievements

- Recipient of the prestigious President of India Silver Medal in May 2004 for academic excellence.

- Recipient of the IIT Guwahati Institute Merit Scholarship for past four years consecutively (2000-2004).

- Secured 93% marks in standard 12th and 92% in 10th (ISC and ICSE Board).

- Head of the design team for Alcheringa 2003, The IIT Guwahati cultural festival.
  Head Event Organizer for the Design Competition in Techniche 2002, The IIT Guwahati technical festival.
  Member of design team for Alcheringa 2001 and Techniche 2001.
  Active participation for the organization of Manthan 2002 and 2001, the intra IITG cultural festival.