

Education:

Undergrad: Indian Institute of Technology Guwahati, Guwahati, India
Cumulative Performance Index: 8.16/10

School:

CBSE Higher School Certificate 2010 (Class 12th): 90.4%
CBSE Secondary School Certificate 2008 (Class 10th): 89.4%

Areas of Interest:

Tangible User Interface, Human Computer Interaction, Ubiquitous Computing, ICT (Information and communications technology)

Work Experiences:

User Experience Intern: e-Media Lab, Group T – Leuven Engineering College, Leuven, Belgium (May'13 - July'13)

Mentor: Prof. Luc Geurts and Prof. Vero Vanden Abeele, Group T – Leuven Engineering College

Project Domain: User Experience Design, Tangible Interaction, Soft User Interface and Gesture Identification

Brief: Employed User Centered Methodology to conceptualize and prototype a user-friendly product based on Skweezee technology.

Summer Training: Maruti Suzuki, Gurgaon (May'12 - July'12)

Mentors: Mr. Tarun Thakur

Project Domains: Assembly Line Study and Interaction Design

Brief: It aimed at easing the task of Vehicle Inspector at Final Line by reminding them about the details (like features of the model) of vehicles arriving at station.

Publications:

Mehul Agrawal, Apurva Gupta and Keyur Sorathia. "Exploration of Shape-Change as a Feedback Modality in Tangible User Interface", in 17th International Conference on Human-Computer Interaction (HCI International 2015), Los Angeles, CA, USA, 2015. (Accepted for publication)

Mehul Agrawal, Vero Vanden Abeele, Karen Vanderloock and Luc Geurts. "Skweezee-mote: A case-study of a gesture-based tangible product design for a television remote control", in *International Conference on Research into Design' 15 (ICORD 2015), Bangalore, India, 2015.*

Mehul Agrawal, Minal Jain, Vikas Luthra, Ashok Thariyan and Keyur Sorathia. "ChemicAble: Tangible Interaction Approach for learning Chemical Bonding", in *the proceedings of 11th Asia Pacific Conference on Computer Human Interaction (APCHI 2015), Bangalore, India, 2013.*

Mehul Agarwal, Himanshu Bansal and Keyur Sorathia, "Incorporating Collaboration to Foster Voluntary Teaching", in *workshop on Intelligent User interfaces for Developing Regions (IUIDR), International Conference on Intelligent User Interfaces (IUI 2013), CA, USA, 2013.*

Abhinav Krishna, Himanshu Bansal, Mannu Amrit, Mehul Agrawal and Minal Jain. "Threading Centric Approach Towards Email Client", in *OzCHI 2013, Adelaide, Australia.*

Projects:

Exploration of shape changing for feedback in tangible user interfaces – Bachelor Thesis Project (July'13 – June'14)

Supervisor: Asst. Prof. Keyur Sorathia, Embedded Interaction Lab, Department of Design, IIT Guwahati.

Keywords: Tangible User Interface, Research Experiment Design

Brief: Exploring the area of tangible user interfaces and shape changing interfaces and studying how their convergence can enhance user experience in terms of providing active feedback to the users.

Ukil Project: Supplementing learning through interactive games (August'13 – Nov'13)

Supervisor: Prof. Ravi Mokashi Puneekar, Department of Design, IIT Guwahati.

Keywords: Design intervention in Education, Collaborative design method

Brief: Enhancing knowledge about geography among the school students by using collaborative games that enhance interaction and knowledge sharing. A collaborative design process was followed involving the community of the school at almost every step of the process to collaboratively come up with a solution.

ChemicAble: Tangible Interaction Approach for Teaching Chemical Bonding – Tangible Interface Course Project (Jan'13 – April'13)

Supervisor: Asst. Prof. Keyur Sorathia, Embedded Interaction Lab, Department of Design, IIT Guwahati.

Keywords: Tangible User Interface, Design intervention in Education, Collaborative Learning

Brief: Designed and developed an exercise tool to facilitate understanding of ionic bonding among school students (grade 8 to 10) by promoting exploration and fun.

INKING: Reimagining the note-taking and diagramming application for mobile devices (Feb'14-July'14)

Supervisor: Microsoft IDC, India

Keywords: Pen-computing, User research, Design intervention in Education

Brief: Design a tablet application to enhance the Inking experience for tablets and foster improved content creation and management.

Let's Teach: Incorporating Collaboration to Foster Voluntary Teaching – Interaction Design Course Project (July'12 – Nov'12)

Supervisor: Asst. Prof. Keyur Sorathia, Embedded Interaction Lab, Department of Design, IIT Guwahati.

Keywords: Design intervention in Education, Voluntary Teaching, Collaborative Teaching

Brief: Following user centric approach, we proposed collaboration as a potential solution to foster voluntary teaching. A web based platform was designed to support collaboration among voluntary teachers.

Cabage: Translating cab-sharing to information system – Design Project I (July'12 – Nov'12)

Supervisor: Asst. Prof. Manoj Majhi, Department of Design, IIT Guwahati.

Keywords: User Centered Design, Information System, Cab-sharing

Brief: Translating the physical world experiences of cab-sharing in web environment using a user centered design approach.

Skills:

Design Skills: Rapid Prototyping, Questionnaire Design, Competitive Analysis, Persona and Scenario Creation, Mind Maps, Card Sorting, User Interface Design, Contextual Inquiry, Wire-frames, Information Architecture, Heuristic Evaluation, Usability Evaluation, Experimentation Design and Quantitative Analysis

Software: Adobe Photoshop, Adobe Illustrator, Adobe Dreamweaver, Adobe Flash, Microsoft Office, Balsamiq Mockups, Nvivo, Processing, Arduino

Programming: C, C++, HTML, CSS, Python, PHP, VBScript, Processing and Android XML

Operating Systems: Windows and Mac OS

Achievements and Co-curricular:

- 3rd - OzCHI 24, The Student Design Challenge, OzCHI 2013, Adelaide, Australia.
- 1st - Movie making in Manthan'11, Inter hostel cultural festival, IIT Guwahati.
- 1st - Astro Design in Kriti, Inter hostel technical festival, IIT Guwahati.
- 2nd - Green advertisement in Kriti'11, Inter hostel technical festival, IIT Guwahati.
- 3rd - Overnight Hackathon in Kriti'12, Inter hostel technical festival, IIT Guwahati.
- Attended a workshop based on concepts, design and building IR Sensors by Skytechlabs.
- Successfully completed online courses- Human-Computer Interaction and Learn to Program.

Positions of Responsibility:

- Core Team Member, Brand Communication and Creatives, Techniche, Techno-management Festival, IIT Guwahati (2011-2012).

Other interests:

Exploring, Tinkering, Photography, Travelling, Reading, Blogging