

UTTAM GRANDHI

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EDUCATION

Master of Professional Studies Interactive Telecommunications Program Tisch School of Arts New York University	9/2013 - current
Diploma Digital Character Animation Vancouver Film School	7/2010 - 12/2010
Master of Science + Bachelor of Engineering (dual degree) Physics + Mechanical Engineering Birla Institute of Technology & Science (B.I.T.S) - Pilani	8/2005 - 6/2010

THESIS

Learning Based Approaches for Visual Control of Redundant Manipulators Guide: Dr. Laxmidhar Behera, Professor, Dept. of Electrical Engineering IIT-Kanpur	2010
<ul style="list-style-type: none">• Calibrated the robot's visual space using Tsai Camera Model• Simulated and performed learning experiments on a 7-DOF robotic arm	

ACHIEVEMENTS

Michelangelo, sketching robot won a silver at ROBOGAMES, San Francisco Responsibilities: Design, Manufacturing, Assembly.(Team of 2)	2009
Cyborg, mixed media sculpture, won a bronze at ROBOGAMES, San Francisco Responsibilities: Design, Manufacturing, Assembly and Logistics.	2009
WALL-E, dancing robot, secured 1st position at TECHFEST, IIT-Bombay Responsibilities: Design, Manufacturing, Assembly and Painting. (Team of 2)	2009
Secured 3rd/50+ teams in hovercraft racing competition at SHAASTRA, IIT-Madras Responsibilities: Design, Manufacturing and Logistics. (Team of 5)	2007
Chi-Robot, A 6 DOF Manipulator, top 10/80+ teams at SHAASTRA, IIT-Madras Responsibilities: Design, Manufacturing, Assembly and Logistics. (Team of 3)	2008
Biped, An 8-DOF Biped participated in the final round of the International Legged Robot Competition at TECHFEST, IIT-Bombay Responsibilities: Design, 3D printing, Assembly and Logistics. (Team of 4)	2009

SKILLS

Web: HTML5, CSS3, Javascript
Graphics: Adobe Photoshop, Inkscape
Video: Adobe Premiere, Adobe After Effects
Programming Languages: C, Processing
Physical Computing: Arduino
Crafts: Paper Engineering, Sculpting Blue Foam, Mould making, Wood working
Fabrication: Conventional machine tools, Power hand tools, Laser Cut, 3D Printing

TALKS

Introduction to Data Visualization and Processing
at The Fifth Elephant, Bengaluru
<http://goo.gl/0uYg4q>

7/2012

WORK EXPERIENCE

Graphic/Web Designer 1/2013 - 6/2013
Airpush Inc. Pvt. Ltd, Bengaluru

- Drastically enhanced the UI/UX for advertiser and developer portal using Adobe Photoshop, HTML and CSS.
- Designed and created MRAID compatible Ads for Mobile and Tablets using Adobe Photoshop, HTML, CSS3 and Javascript.
- Created a prototype of MRAID Web Tester using HTML5, CSS3 and Javascript.

Artist 7/2011 - 1/2013
Artoo I.T. Solutions Pvt. Ltd., Bengaluru

- Created a website from scratch using HTML5, CSS3 and JQuery
- Completely revamped the UI of the web application using HTML5, CSS3 and JQuery
- Implemented elegant visualizations using Backbone.js , d3.js and Google Maps API
- Illustrated numerous graphic elements for the Web and Android
- Established an internal standard for documentation and iterative development of a website
- Created animated videos using Photoshop & After Effects
- Designed and Illustrated promotional bookmarks, brochures and stickers

Intern 7/2009 - 12/2009
Larsen & Toubro, Coimbatore

- Performed Value Stream Map analysis for the processes of a 5-axis vertical milling center
- Implemented Lean Manufacturing concepts like Five S, Kanban and Poke-Yoke in CNC Machine Shop

Intern 5/2007 - 7/2007
National Thermal Power Corporation Ltd., Ramagundam

- Researched the functioning of steam bypass lines and digital control & monitoring systems
- Gained insights on industrial operations, instruments, maintenance & functioning of a Power Plant

PROJECTS

Development of a 3 DOF sketching robot 2009
Birla Institute of Technology and Science, Pilani

- Designed & fabricated a sketching robot that delineates portraits by drawing curves under the guidance of Dr. B. K. Raut, Associate Professor, Mechanical Engineering Division

An extensive study on aspect ratios of RIE profiles on single crystal silicon 2009
Central Electronics Engineering Research Institute, Pilani

- Proposed a novel fluid dynamic model to explain the phenomenon of Reactive Ion Etching (RIE) - Lag in deep etching (used for isolation) under the guidance of Dr. G. Eranna, Scientist 'F', Sensors and Nanotechnology Group

Dry Etching Techniques 2008
 Central Electronics Engineering Research Institute, Pilani

- Etched a unique square spiral pattern using RIE on a 2-inch single crystal silicon wafer. Also performed photolithography and characterization using Optical Microscope and Scanning Probe Microscope under the guidance of Dr. G. Eranna, Scientist 'F', Sensors and Nanotechnology Group

Design of a 6 DOF robotic arm 2008
 Birla Institute of Technology and Science, Pilani

- Designed & fabricated an industrial class manipulator that can maneuver obstacles to pick objects of different shapes and sizes

PUBLICATIONS

Design of a Robotic Accessory for Abdominal Surgery 5/2010
 Dr. R. Bhavani Rao, Uttam Grandhi
 Hamlyn Symposium on Medical Robotics, London, UK

Michelangelo: A 3-DOF Sketching Robot 3/2010
 Ravi Shankar Ippili, Uttam Grandhi, [et.al]
 International Conference on Robotics and Intelligent Sensors, Nagoya, Japan

EXTRA CURRICULAR ACTIVITIES

Visualized a microphone's input using processing at Digital Organic 2012
 A pool organized by Lucid [<http://goo.gl/tu0t0>]

Member, Lucid (A studio for speculative art [<http://lucid.net.in>] 2012
 Analyzed artistic texts in the areas of New Media and Design, Bengaluru

Exhibited digital works, paintings & sculptures at "Galleria" during APOGEE 2008

Joint Co-ordinator, BITS Physics Society [<http://goo.gl/Fs2ed9>] 2008
 Designed posters and organized events during APOGEE

Senior Core Member, Creative Activities Club, BITS-Pilani [<http://goo.gl/KLOYyQ>] 2007
 Contributed to 20" x 20" sketching & painting panels for OASIS

Publicity Co-ordinator, Andhra Samithi, BITS-Pilani [<http://goo.gl/VA54rD>] 2007
 Designed and implemented innovative methods of advertising using print media for various cultural programs