

## EDUCATION

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### Carnegie Mellon University

Master of Product Development, GPA 3.96/4

May 2014

### Indian Institute of Technology (IIT) Gandhinagar

Bachelor of Technology, GPA 8.6/10

April 2013

Major in Mechanical Engineering with Minor in Computer Science and Engineering

Awarded Merit Scholarship, 2011-12, 1<sup>st</sup> in class

## PROFESSIONAL EXPERIENCE

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### Micro Texturing on Curved Surfaces using Reverse EDM

Internship, IIT Bombay Summer 2012

- Improved hydrophobicity of metal by fabricating micro pillars on their surface
- Presented and published research paper in AIMTDR (manufacturing) conference proceedings

### Point of Sale (POS) System

Internship, Vardhaman Technology, Mumbai Summer 2011

- Designed a portable computer system and its internal parts to mount motherboard, hard disk, display

## PROJECTS

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### Custom Cosmetics

Industrial Design & Entrepreneurship Process Fundamentals, CMU Fall 2013

- Redesigned lipsticks to minimize the wastage of the pigment left in the tube
- Conceptualized a unique ecosystem for online purchase of lipsticks that allowed complete customization of lipstick shade, tube color, label and extended it to other cosmetic products

### Automatic Irrigation System

Innovation and Product Development, IIT Gandhinagar Spring 2012

- User centered development approach to prototype an irrigation system for house gardens
- Developed a low-cost kit with components such as automatic water timer, modular stands & flow valves
- Designed the system to control the amount of water to different plants as per their requirements

### Switching of Book Shelves

Kinematics and Dynamics of Machines, IIT Gandhinagar Spring 2012

- Designed a linkage mechanism for height adjustment of two book shelves by interchanging them
- Developed a prototype to demonstrate the working of the mechanism to interchange two shelves

### Electronic Hat for Quadriplegic People

IIT Gandhinagar Fall 2011

- Developed a hat for computer pointer maneuvering using just head movements
- Interfaced an accelerometer with Arduino and used Processing language to implement functions for movement of computer pointer in four directions, right and left clicks

## LEADERSHIP

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### Organizer

Amalthea (Annual Technical Summit), IIT Gandhinagar 2010-12

- Initiated the college's first technical summit with other batch mates
- Led a team of 4 students for website development and internet marketing

### Founding Member

Rompotiks (Robotics Club), IIT Gandhinagar 2009-11

- Organized workshops & competitions for students of college

## SKILLS

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**Software:** SolidWorks, Autodesk Inventor, Adobe Flash, Illustrator, InDesign, Gimp

**Programming:** C, HTML, CSS, Scilab, Matlab, R, SQL

**Design:** User Centered Research, Ethnographic Studies, Scenario, Storyboarding