Dharit PARIKH

PERSONAL INFORMATION

DATE OF BIRTH:	12 July 1995
ADDRESS:	124, Shreekunj Society, Prabhat Chawk, Ghatlodia, Ahmedabad, 380061, Gujarat, India
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WORK EXPERIENCE

JUL-OCT 2013 | Teaching Assistant for CALCULUS AND DIFFERENTIAL EQUATIONS
At IET - Ahmedabad University
Duties included helping students during weekly held tutorial sessions, after class with any conceptual difficulties they have and helping them with their projects.

EDUCATION

JUNE 2010 — S.S.C.E.
PERCENTAGE: 80.3%
SCHOOL: Shree Swaminarayan Gurukul, Sardarnagar, Bhavnager

JUNE 2012 — H.S.C.E.
PERCENTILE: 88.73
SCHOOL: Gyanmanjari Vidyapith, Bhavnager

JUNE 2016 — Undergraduate Degree in INFORMATION and COMMUNICATION TECHNOLOGIES
CGPA: 2.95/4
School of Engineering and Applied Science - Ahmedabad University, Gujarat, India

SKILLS

PROGRAMMING LANGUAGES:	C/Embedded C, C++, Python, Verilog, R, JavaScript
LIBRARIES AND TOOLS:	D3.js(Javascript), STL(C++), MySQL, Logisim, LTspice, Silos Simulator

PROJECTS

Computer Science

1. *Text Compression using Huffman Coding*

   Implemented Huffman algorithm in C++ to compress and decompress text files, got upto 45% of compression on files greater than 10 kB in size.

   Course: Information and Coding Theory

2. *Analyzing Cricket Dataset*

   Analysed the cricket ODI match summary and player stats datsets for years 2008-2013 to rank teams and their confidence, predict outcome of hypothetical world cup fixtures and created a World XI team.

   Course: Data Analytics and Visualisation

3. *Cryptography*

   To create a secure communication, we encoded each bit in a character with four vectors of three elements and sent each vector through a different channel, the original character can be obtained only by applying the appropriate decoding technique to all the four vectors.

   Course: Computer Networks

Design

1. *E-Learning Game for Children*

   After interviewing children of age group 7 - 12, designed an interactive game with stories of "Chota Bheem" to teach basic mathematical concepts through different approaches.

   Course: User Centred Design - 1

2. *Elderly Health Care Device*

   Interviewed senior citizens and created a persona for our product, brainstormed ideas in the group and after doing the competitor analysis ideated our product, created the use case scenarios of our product and created a rapid prototype of the idea.

   Course: User Centred Design - 2

3. *Ethnographic Study of Behaviors at BRTS*

   Observed how the people interact with BRTS environment, interviewed them and after analysing our fieldnotes and going through the ethnographic process derived insights, created themes and categories of users and brainstormed ideas for future work in BRTS.

   Course: Ethnography

Electronics

1. *Conditional Sum Adder*

   Implemented conditional sum adder in verilog which takes $O(\log(n))$ time to calculate the of n-bit long numbers where n is of order of 2. Ripple carry counter compared to this takes $O(n)$ time.

   Course: VLSI Sub-system Design

2. *Attendance Management System using RFID*

   Created an embedded system using ATmega32/L microprocessor development board which uses RFID reader to take attendance of present students and can send that data to the PC.

   Course: Embedded System Design

3. *Digital Stop Watch Simulation*

   Created a Digital Stop watch in "Logisim" using basic digital components.

   Course: Digital Design

EXTRACURRICURAL ACTIVITIES

JAN. 2015	Co-Manager of winning football team at Dynamos in IET - Ahmedabad University
JAN. 2014	In the Runner-up team of cricket tournament at Dynamos in IET - Ahmedabad University
SEPT. 2013	Doubles Table-Tennis Runner-up in Intra-University Competition at Ahmedabad University