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# ABHINAV GANGWAR

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## EMPLOYMENT

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Internship	Google Summer of Code ( <a href="#">GSoC</a> )	Summer 2014
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Designed an [educational game](#) using [Marble \( a virtual globe \)](#) under [KDE](#) .

- Fixed lots of missing bits in Marble library to be able to implement games.
- Added a [political map](#) to Marble .
  - Modified the shp runner, to open .shp files, to parse some extra metadata from .shp file.
  - [Modified the pn2 format](#) which Marble uses to store map data.
  - Added support to specify custom colors, which are used to color countries on map, in theme file .
- Added ["highlight on click"](#) feature which highlights a country on map when user clicks on it.
- Added support to [download remote images](#) specified in .kml files.
- Based on this political map, I designed [three games](#) - 1. Identify the country shape, 2. Identify the flag and 3. Identify the location of a country on map .

( My [blog](#) explains all these changes in detail. Apart from this I have also contributed other patches which are on my [review board account](#). )

## EDUCATION

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Hamirpur, H.P.	National Institute of Technology, Hamirpur	July 2011 - Present
➤ B.Tech in Electronics & Communication Engineering with CGPI 7.13 .		
MULTAN NAGAR, NEW DELHI	SARVODAYA CO-ED SSS, MULTAN NAGAR	June 2011
➤ 12 <sup>th</sup> from CBSE board with a aggregate of 74.2 % marks.		
SHAHJAHANPUR, U.P.	JNV SHAHJAHANPUR	JUNE 2009
➤ 10 <sup>th</sup> from CBSE board with a aggregate of 80.8% marks		

## TECHNICAL EXPERIENCE

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### Projects

- [Electronic Diary Manager](#) ( June 2013 ) A simple application which allows users to write/read their diary entries. The program can register multiple users with a user name and password. After successful login user is given access to diary contents.
- [Hex Board Game](#) ( November 2013 ) Implemented [Hex \( Board Game \)](#) as part of assignment for online course [C++ For C Programmers](#) .
- [Text Editor](#) Using [Qml/Qt-C++](#) ( April 2014 ) A text editor providing basic operations like open, save, copy, paste etc. , designed with nice user interface and animations.
- [Gesture Controlled Robot](#) ( October 2013 ) As a part of ARM design challenge 2013, with a team of 3 students, designed a gesture controlled robot using accelerometer and mbed kits LPC 1768 and LPC 1114 based on ARM processors cortex M3 and M0 respectively.
- Also, I'm contributing to improve open source projects. All my patches are [here](#).

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## **ADDITIONAL EXPERIENCE AND AWARDS**

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- Got 1st place in ARM Design Challenge held in NIT Hamirpur, 2013 .
- Online Courses:
  - [C++ for C programmers](#) on coursera.
  - [Algorithms: Design and Analysis, Part 1](#) on coursera.
- Volunteered help as an active member for 'Society For Promotion Of Electronics Culture' (SPEC) for one year.
- An active member of Linux User Group NIT Hamirpur ( [GLUG](#) ) spreading awareness for free and open source softwares.

## **Languages and Technologies**

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- C++; C; SQL; KML
- Qt, KDevelop, Vim, [SHP API](#) .