

# ALISTAIR LOBO

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Academic Record			
BE (SEMS 1-7)	2013 - 17	Don Bosco Institute of Technology, Mumbai.	7.71/10
XII Standard	2012 - 13	St. Andrew's Junior College. (MAH State Board)	64.50%
X Standard	2010 - 11	Don Bosco High School.(MAH State Board)	83.64%
Achievements	<ul style="list-style-type: none"> <li>Won certificate of recognition for volunteering for the same Ethical Hacking workshop I had won a year ago given below. <i>Aug 2016</i></li> <li>Won Free certification course on Ethical Hacking. <i>Dec 2015</i></li> <li>Won Best Conduct Award in T.E. Computer Engineering DBIT. <i>Sept 2015</i></li> </ul>		
Certifications	<ul style="list-style-type: none"> <li>Won A grade certificate by U.N. for "Rio+21 IYWC INDIA PROGRAM" Short Term Course in Water Cooperation. <i>Dec 2013</i></li> </ul>		

B.E. Project	
<p align="center"><b>Fire Detection by Pattern Matching Using Camera &amp; RaspberryPi.</b></p> <p><b>Abstract :</b> Fire is an undesirable event that could bring a great loss of social wealth and human life. In order to prevent such losses different alarm systems such as smoke detectors, temperature sensor based systems etc., have been developed. Our new proposed system is aimed to design and develop a fire detection system which would detect fire without any heat or temperature sensor. The main objective of the image processing based fire detection system is the early warning benefit. This system captures images of the the surroundings, the system will process these images and filter it with specific set of patterns. <i>Wiener Filter Algorithm</i> is used to improve the clarity and reduce the blurring effects of the captured image. This algorithm is programmed in <i>Python</i> and supported by <i>OpenCV</i> libraries. Live streaming of camera visuals are recorded in a real-time database powered by <i>DJANGO &amp; PostGRESQL</i>. This project also eliminates the risk of generating false alarms which are generated because of the use of sensors and also improves the accuracy of the fire detection technique.</p> <p><b>Current Progress:</b> 5 modules for the project were completed namely, Blur detection, Deblur images, Flame detection, Database connectivity using <i>PostGRESQL</i> with integration of above listed software modules with the hardware components using necessary jumper connectors and <i>RPi</i> easy interfacing techniques.</p>	
Academic Projects	
<b>Don Bosco Centre For Learning (DBCL)</b> <ul style="list-style-type: none"> <li>Main website for the whole campus.</li> <li>Rough site at <i>dbcl.dbclkurla.in</i>.</li> <li>Final site on <i>dbclmumbai.org</i>.</li> </ul>	<i>Jun 2016</i>
<b>Green Don Bosco Centre For Learning (GDBCL)</b> <ul style="list-style-type: none"> <li>Green campus website which gives information on the greenery present in college.</li> <li>Live at <i>gdbcl.pe.hu</i>.</li> </ul>	<i>Aug 2015</i>
<b>Department website for DBIT - Computer Engineering (Being Handled)</b> <ul style="list-style-type: none"> <li>Department website which gives information on various department activities.</li> <li>Live at <i>comps.dbit.in</i>.</li> </ul>	<i>Mar 2016</i>
<b>Website for student Chapter ACM DBIT</b> <ul style="list-style-type: none"> <li>ACM DBIT website which gives information on various events, activities, workshops, etc.</li> <li>Live at <i>dbit.acm.org</i>.</li> </ul>	<i>Jun 2016</i>
Some More Projects	
<b>Festival Projects handled on the below site</b> <ul style="list-style-type: none"> <li>Archived at <i>dbclkurla.esy.es</i>.</li> </ul>	<i>Jun 2016</i>

## Position of responsibility

- **Dell Campus Ambassador (*Campassador*) for DBIT (2016)**

Selected as the Dell Campus Ambassador for DBIT, organised various online events for college students. Also had a meet with some underprivileged students who haven't had a chance to use nor know the working of a computer along with an NIIT trainer recently.

- **Webmaster - ACM | DBIT (2016)**

Worked on various projects, websites (*as given above*), organised various workshops for general web development, CMS framework like *WordPress*, web security.

- **Webmaster - DBIT | Undergraduate Computing Society (DUCS) (2016)**

Django Developer for DUCS, Event organiser for gaming, *Arduino/RaspberryPi* renting.

## Extra-Curricular Achievements

- **Teknack 2017 (DBIT)**

Jan/Feb 2017

Work in progress for Teknack 2017, an online technical festival conducted by ACM DBIT as a Main Head/In-charge for UI/UX, along with game integration. (*Majorly using SpaceJs & ThreeJs*)

Publicity site live on [www.teknack.in](http://www.teknack.in) & future animation work drafted on [alistairlobo95.gitlab.io/tn2k17](http://alistairlobo95.gitlab.io/tn2k17).

- **Helped out in designing an apt technical event (*HackerRun*) for Colosseum '16**

Oct 2016

The game included three level in three different labs and players had to use Linux Commands, Concept of Hash functions and also some amount of *SQL* to acquire DB.

- **Volunteered for Ethical Hacking Workshop For DBIT**

Feb 2016

Was a volunteer for the workshop which was a two day brief workshop on Ethical Hacking, Also a certificate of recognition was earned for the same.

- **Teknack 2016 (DBIT)**

Feb 2016

Worked for Teknack 2016, an online technical festival conducted by ACM DBIT as a Main UI/UX developer, along with game integration. (*Since it is a 2 day events the worked on project for the event is archived at [dbclurla.esy.es/TN2016](http://dbclurla.esy.es/TN2016)*) (*Majorly used SkrollrJs*)

- **Winner of "French Cooking Competition" (*St. Andrew's College*)**

Mar 2012

Won first place for Main Course and Dessert by French Chef Monsieur Maxime Legris.

- **Winner of InterSchool Chess Tournament (*Don Bosco H. School*)**

Mar '06, '07, '08

- **Winner of Religion Award (*Don Bosco H. School*)**

Mar 2008

## Hobbies & Interests

- Web Development (*Full fledged Front-End and some amount of Back-End*)
- Music (*Includes playing the Guitar and the Piano along with Background Vocals and Sound Mixing*)
- UI/UX Design and Animation
- Drawing and Craft
- Cooking
- Python developer (*Started recently*)
- Love to try out new Linux Distro's
- Linux commands (*Good Experience*)