		Nithin Murali				13D070058	

Nithin Murali   **13D070058**
Electrical Engineering   **UG Second Year**
Indian Institute of Technology Bombay   **Male**
Specialization: Microelectronics   **DOB: 26-03-1994**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2015	6.38
Intermediate/+2	CBSE	Good Sheperd Higher Sec	2013	93.60
Matriculation	CBSE	Javahar Navodaya Vidyalaya Plalakkad	2011	9.60

Experience

Matsya, Autonomous Underwater Vehicle(AUV)   [autum 2014 - present]

Research & Development Project, IIT Bombay.
Guide: Prof. Leena Vachhani & Prof. Hemandra Arya
International underwater Robotics competition, San Deigo, California. Developing the algorithms to enable an AUV to autonomously localise itself and perform realistic missions based on feedback from visual, inertial, acoustic and depth sensors using propellers. It is a year long project involving co-orinated efforts from 30 IIT Bombay students from different fields.

- Working on Image processing division of the vehicle
- Working with Robot Operating System as a hardware and open-cv
- Implementing various algorithams to improve vision and make the vehicle able to perform new tasks

Refreshable braile display   [Summer 2013]

Institute Summer Technical Project, IIT Bombay

- Developed a device to *reads text* from e-books and then display them in the brailie display hepls the blind in reading e-books
- Got familiarised with the use of **r-pi development board** and improved python skills
- Selected to final round Intel Embedded India Challenge 2014

Intern at zerogames.com   [summer 2014]

Guide Prof-Pradeep Nair, EE IIT-Bombay

- Developed a *secure login* system using sha4 hashing
- implemented algorithms for managing users and admins profiles
- implemented algorithms for managing game data

Parinath – Humanoid Robot   [spring 2013]

- worked in the *AI coding* division of parinath
- learned various **machine learning** algorithms

Robin – Platform Game   [spring 2013]

Guide Prof-Supraeim biswas , CS IIT-Bombay

- Designed and Coded a platform game purely in c++
- game is completely modeled using classes , used *SDL library* for Graphics

Fastest Finger First-Electronics Project   [spring 2013]

Guide Prof-Pradeep Nair, EE IIT-Bombay

- Designed and implimented a circuit breaker for quizzes and gameshows

Programming projects [spring 2013]

- designed and coded 17th Asian Pacific Corrosion Control Conference website from scratch
- designed and coded dramatics club website *dramatics club website* and Hostel 15 IITB website
- made an program to *control computer* using hand gestures using image processing

Position of Responsibility

Convener WnCC [2013 - present]

[*Web a nd Coding club IIT Bombay – one of the biggest clubs in IIT Bombay*]

- Organising various events , workshops in the institute
- participate in competitions representing IIT Bombay

Co-ordinator Techfest IIT Bombay [2013-present]

- Developed a **Virtual Betting Android app** for Robowars
- contributed to techfest website, mainly backend
- wrote scripts for data mining

Organizer Techfest IIT Bombay [2013-2014]

- Managed logistics for exhibitions event
- accompanied an exhibitor in explaining his projects
- manged food and beverages throughout the festival

Tech Councilor Hostel 15 IIT Bombay [2013-2014]

- Managed 9 tech representatives , all hostel tech related issues
- conducted gaming competitions and workshops
- designed coded and maintained hostel website

Technical Skills

- **Computer Languages :** Python, JavaScript, C++, Bash, LaTeX, PHP, Html, css, ajax , visual Basic ,SQL and MysQL , some Java, 3d Game designing in 3dgs-A7 , Android and assembly
- **Development Boards / Microcontrollers** : Ardunio , Rasberry-pi, Intel Galelio
- **Tools/OS** : windows, unix, ROS, NG-Spice, solid works, some photoshop

Extra-Curricular Activities

- Made a *Wireless Remote Controlled Tank* for a racing competition conducted by Technical Club of IIT Bombay
- Made an completely autonomous *line following* robot
- made an **Ball throwing robot** which could throw balls at different ranges and angles
- participated in *Angel-Hack* Hackathon, *Fire- Hack* hardware hackathon
- Volley-Ball ,Football, Reading

Relevant Courses covered

- Advanced computing for electrical engineering
- Indroduction to design – Case studies
- Computer And Network Security