

Abhimanyu Kumar

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Examination	Institute	Year	CGPA / %
B.Tech. (CSE)	IIT Mandi	2009-13	7.56/10
Intermediate/+2	T.P.S. College patna (Bihar Board)	2008	70%
Matriculation	N.M. High school Gangaur (Bihar Board)	2006	78%

ACADEMIC PROFILE

EXPERIENCE

Scientist, DRDO | Hyderabad

Since Aug 2013

Design, Development and Testing of Inertial Navigation System Software for Garuthma Missile

- Designed and developed a calibration scheme for modelling the gyroscope measurement for better accuracy of the strategic missiles.
- Implemented hybrid navigation filter which takes input as GPS position, INS Gyros and Accelerometers output and gives output with better Position accuracy.
- Developed scheme for testing INS software over the library (Written in C) provided by DDC which supports 1553B communication protocol.

INTERNSHIPS

1. Navyug Infosolutions Pvt. Ltd. | Noida, India

[Jan - Feb 2013]

Patients Details management system Android App

- Developed android app using **Vuforia augmented reality** SDK for text recognition on the medicine tablet to ease the medicine management of patients.
- Ensured the confidentiality of the individual patients details.

2. Nucleus Software Exports Pvt. Ltd. | Noida, India

[June - July 2012]

Emotions manipulation system using NLP paradigm on social media data

- Developed data parser for analysing the Facebook post for deriving the sentiments of the individual.
- Skills & tools used - Stanford Corenlp library, Web-service, java, MySQL.

3. Financial Software System Pvt. Ltd. | Noida, India

[Dec 2011 - Jan 2012]

Web Forum Portal

- Designed and Implemented web based forum portal to enable the person to build a network from around the world and discuss innovative and creative ideas.
- Skills & tools used - PHP Symfony Framework, HTML, CSS, MySQL

ACADEMIC PROJECTS

1. Online AI Competition Judge

[Feb - May 2013]

- Project involved developing an application that **accepts bots, conduct matches** between them and ranked them based on the results of the matches.
 - Created **sandboxing** to prevent the server from malicious code.
- 2. Game Development** [Feb - May 2012]
- Development of the Educational game for the primary school student.
 - Students have to answer the states name based on geographical location and regional songs.
 - Skills & tools used : C++, **OpenGL library**, Blender
- 3. OpenNMS customisation to monitor the Facebook status** [April - May 2012]
- Added features in network monitoring tool (**OpenNMS**) to monitor the Facebook notification along with its existing features of network monitoring.
 - Developed graphical user interface to enrich the usability for the end users.
 - Skills & tools used : Perl, Python, HTML, CSS, MySql, XML
- 4. National unique id Database Application** [Feb - April 2011]
- Design and development of the scalable database application for storing users record and auto switching of servers in case of lookup request.
 - Skills & tools used : Perl, PHP, MySql, HTML, Javascript
- 5. End to end bandwidth measuring tool** [Feb - May 2011]
- Implemented BST algorithm in bandwidth measuring tool **pathload** to improve the delay in bandwidth measurements.
 - Enhancing the probe pattern weakness based on the delay time of the previous packet.
- 6. Wheel chair operated by sound** [Jan - May 2011]
- Designed a voice operated wheel chair to minimise the efforts of the physically disabled people.
 - studied in-details the mechanical-electrical interface and implemented the functionality between micro-controller and electrical motors.
 - Skills & tools used : Embedded-C, speech recognition kit, Electric motor.
- 7. Online Application form for the MS/PhD students** [Aug - Dec 2010]
- Designed a web portal through **PHP, HTML, CSS, JavaScript** to minimise the application process efforts and promoting the e-service and reducing paper work.
 - Used **MySQL** for data storage purpose.

SKILLS

Language : C, C++, Embedded C, Python. Bash shell, Basics of Java, PHP, HTML

Operating Systems : Ubuntu, Windows 8/7/vista, MS DOS

Others : Eclipse, MATLAB, Visual Studio, VDSP

ACADEMIC ACCOLADES

- Lead the Athlete group of IIT Mandi in **46th & 47th** inter IIT sports meet.
- Awarded by honourable chief minister of Bihar for performance in **Super-30**.
- Awarded by **Merit cum Means** scholarship during 1st, 2nd, 3rd and 4th year.
- Co-coordinator NSS Education cell.