

Rishabh Rawat **Electrical Engineering Indian Institute of Technology Bombay Specialization: Microelectronics**

120020087 **UG Second Year**

Male

DOB: 16/07/1994

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	9.11
S CHOLAST	IC ACHIEVEMENT	CS	'	
Achieved an All India Rank of 1055 in IIT Joint Entrance Exam				('12)

• Awarded **Branch change** for Exceptional Academic Performance

(July - '13)

Awarded Certificate of Merit from CBSE for securing 299 of 300 in PCM in Class XII

('12)

• Awarded AP (Advanced Performer) in CL152 for being in top 3%

(May - '13)

• Awarded Gold Medal and cash prize for Achieving AIR 17 in NSO

('06)

• Awarded Gold and Silver Medals in Individual Contest in International Young

Mathematician's convention in successive years

('08,'10)

PROJECTS UNDERTAKEN

PRATHAM - IITB 1ST STUDENT SATELLITE INITIATIVE

(MARCH '13-PRESENT)

- Performed **space grade tests** on satellite peripherals including GPS and Magnetometer
- Developed and verified **Onboard software** for effective functioning of satellite
- Developed and implemented a real time Onboard In Loop Simulator (OILS) to simulate the actual functioning of satellite software in space environment

PARINAT - IITB HUMANOID PROJECT

(OCTOBER '13-PRESENT)

- Designed **servo controllers** and implemented **wire routing model**, for complete motion control
- Devised an improved microcontroller framework to support increased processing load

WINTER INTERN AT GAMEYARD STUDIOS

(DECEMBER '13)

- Designed and Developed Market standard Android games using UNITY-3D platform
- Conceptualized and Created animation sequences and 3d-models on Blender Platform

SUMMER INTERN AT BIOSYNTH

 Developed the Acid Oil Protocol and implemented WVO Protocol for large scale production of **Biodiesel** from waste oils

STUDENT SATELLITE SOCIETY OF INDIA

(AUGUST '13-PRESENT)

• Co-Founded the Student Satellite Society of India (an NGO) with the motivation to promote the learning of Space Technology in India

OTHER TECHNICAL ACTIVITIES

- Developed advanced line and curve detection and object tracking algorithms in Image **Processing using OPEN-CV libraries** (September '12)
- Designed and Fabricated a **Projectile shooter** as part of AUV competition (October '12)
- Designed and built a wireless four wheeled bot for XLR8 and an autonomous line following **bot** for line follower competition (October '12)
- Developed an OPEN-GL and AI based computer game for CS-101 project (March '12)

EXTRACURRICULAR ACTIVITIES

- Undertook NSO swimming and Successfully completed 12 hour Swimmathon organized by **IIT Bombay** (March '12)
- Undertook 26-days Basic Mountaineering Course by Atal Bihari Vajpayee Institute of **Mountaineering and Allied Sports** (May '12-July '12)
- Completed 68 km, 6-day Amarnath Trek with max height gain of 13000 ft

('07)